WO 2005/059239

PCT/RP2004/053190

- 11

Claims

1. A composition comprising

(A) 75 - 95 % by weight of a compound of formula (1)

 $R_{s} = R_{s} + O + V - O + X \qquad (1),$

wherein R_1 , R_2 , R_3 and R_4 independently of the other denote hydrogen, C_1 - C_2 -alityl, C_2 - C_2 -and or C_3 - C_3 -and study, Y represents ethylene or propylene, n is a number from 4 to 50 and X denotes hydrogen, C_1 - C_2 -alityl, the acid radical of an inorganic oxygen containing acid or fife radical of an organic acid, and

(B) 5 - 25 % by weight of a formaldehyde condensation product prepared from an aromatic sulfonto acid and formaldehyde.

the total amount of components (A) + (B) being 100 % by weight.

15 2. A composition according to claim 1 containing as component (A) a compound of the formula (1), wherein

R₄ is C₂-C₁₈alkyl, phenyl, tolyl, phenyl-C₂-C₃alkyl or tolyl-C₂-C₃alkyl,
R₂ and R₃ are, independently from the other, hydrogen, C₄-C₁₈alkyl, phenyl, tolyl,
phenyl-C₂-C₃alkyl or tolyl-C₂-C₃alkyl.

20 R₄ is hydrogen, X is an acid radical derived from sulfuric acid or orthophosphoric acid, Y represents ethylene and n is a number from 4 to 40.

3. A composition according to claim 1 containing as component (A) a compound of the formula (1), wharein R, is 1-phenylethyl, R₂ and R₃ are, independently from the other, hydrogen or 1-phenylethyl, R₄ is hydrogen, Y represents ethylene and n is a number from 12 to 30.

4. A composition ecoording to claim 1 containing as component (A) the ethanolamine, dielihanolamine, triethanolamine, ampronium, potassium or sodium selt of a méture of monoester and diester phosphale of the polyadduct of 12 to 18 mol of ethylene oxide with the adduct of 1 to 3 mol of styrene with 1 mol of phenol.

Page 1 of 110

Author Search

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FILE COVERS 1907 - 18 Apr 2009 VOL 150 ISS 17 FILE LAST UPDATED: 17 Apr 2009 (20090417/ED)

HCAplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

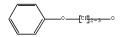
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http://www.cas.org/legal/infopolicy.html

This file contains CAS Registry Numbers for easy and accurate substance identification.

'OBI' IS DEFAULT SEARCH FIELD FOR 'HCAPLUS' FILE

=> D STAT QUE L79 L10 STR



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L23 80569 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L18

L34 STR

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=> D IBIB ED ABS HITSTR L79 1

L79 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 2005:564786 HCAPLUS Full-text DOCUMENT NUMBER: 143:79629

TITLE: Dispersant compositions for reduction of differential pressure in aqueous static dveing of textiles

INVENTOR(S): Bailey, Byron Scott, Sr.; Griffin,

Bruce Owen; Lyons, Brenda W.; Weber, Martin; Saretto, Bruno;

Schlingmann, Heinrich; Mahler, Georges Ciba Specialty Chemicals Holding Inc., Switz.

PATENT ASSIGNEE(S): PCT Int. Appl., 14 pp. SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE: Patent. LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

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ED ntered STN: 30 Jun 2005 GI

$$\begin{array}{c} \mathbb{R}^3 \\ \mathbb{R}^2 \\ \mathbb{R}^2 \end{array} \xrightarrow[\mathbb{R}^1]{\mathbb{R}^4} \circ \mathbb{T}^{\mathbb{N}} = \circ \mathbb{T}^{\mathbb{N}}$$

PR.

AB A composition comprises (a) 75-95% of a compound of the general formula (I), where R1, R2, R3 and R4 are independently hydrogen, C1-C12-alkyl, C5-C24-aryl, or C6-C36-aralkyl; Y is ethylene or propylene; n is a number from 4 to 50; X is hydrogen, C1-C12-alkyl, a radical of an inorg. oxygen-containing acid, or a radical of an organic acid, and (b) 5-25% of a condensation product of an aromatic sulfonic acid and formaldehyde, the total amount of components (a) and (b) being 100%. The compns. can be used as dispersants in aqueous static dyeing of textiles substantially reducing or eliminating differential pressure

when combined with UV absorbers of the benzotriazole, benzotriazine and benzophenone-type. Thus, a dispersant composition having good storage stability and viscosity of 250 mPas was produced by mixing deionized water (54.22), 2-(2'-hydroxy-3'-tert-butyl-5'-methylphenyl)-5-chlorobenzotriazole (12.5), an addition product of tris(1-phenylethyl)phenol and 16 mol of ethylene oxide (7.7), sulfonated ditolyl ether-formaldehyde condensate (2.1), an addition product of C16-18-alkyl alc. and 25 mol of ethylene oxide (0.7), and a com. defoaming agent (1.0), dispersing the composition to a particle size < 2.5 µm, and adding a xanthan gum-based thickening agent (0.4), fungicide Proxel GXL (0.38), and deionized water (25.0 g).

T 3896-11-5

RL: MOA (Modifier or additive use); USES (Uses)

(UV absorber; dispersant compns. for reduction of differential pressure in aqueous static dyeing of textiles)

RN 3896-11-5 HCAPLUS

CN Phenol, 2-(5-chloro-2H-benzotriazol-2-yl)-6-(1,1-dimethylethyl)-4-methyl-(CA INDEX NAME)

$$\begin{array}{c} \text{t-Bu} \\ \text{HO} \\ \end{array}$$

IT 50-00-0D, Formaldehyde, polymers with sulfonated aromatic compds.

RL: NUU (Other use, unclassified); TEM (Technical or engineered material use); USES (Uses)

(dispersing agent; dispersant compns. for reduction of differential pressure in aqueous static dyeing of textiles)

RN 50-00-0 HCAPLUS

CN Formaldehyde (CA INDEX NAME)

H2C-0

RN 70559-25-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α-[2,4,6-tris(1-phenylethyl)phenyl]ω-hydroxy- (CA INDEX NAME)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

Structure Search

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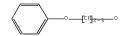
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L34 STR

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=> D STAT QUE L68 L10 STR



Structure attributes must be viewed using STN Express query preparation.

L13 SCR 2043

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L34 STR

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G1 H,Cy,[@1]

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L65 2052 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON DISPERSE DYES+RT/CT
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=> D STAT QUE L69 L10 STR

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L34 STR

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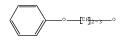
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Cb
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[CH]₂₋₃
G1
H, Cy, [81]



Structure attributes must be viewed using STN Express query preparation. L13 $\,$ SCR 2043

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L23 80569 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L18

L34 STR

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G1
Cb
O
[CH]_{Z=3}
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L48 536 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L43 AND (PRY<=2004 OR AY<=2004 OR PY<=2004)

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L50 21464 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON L49 AND 46.150.18/RID

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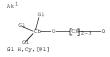
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Structure attributes must be viewed using STN Express query preparation.

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L34 STR



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=> D STAT OUE L71 L10

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L84 ANSWER 1 OF 16 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER:
                       2006:317328 HCAPLUS Full-text
DOCUMENT NUMBER:
                        144:351962
TITLE:
                        Yellowing-resistant flexible polyurethane foams and
                        their moldings
INVENTOR(S):
                        Ohira, Yasumasa; Nishikawa, Takahiro
PATENT ASSIGNEE(S):
                       Kurashiki Spinning Co., Ltd., Japan
SOURCE:
                        Jpn. Kokai Tokkvo Koho, 12 pp.
                        CODEN: JKXXAF
DOCUMENT TYPE:
                        Patent
LANGUAGE:
                        Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:
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PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2006089562	A	20060406	JP 2004-275209	20040922 <
PRIORITY APPLN. INFO.:			JP 2004-275209	20040922 <
ED Enterned CTM. Of he	2006			

Entered STN: 06 Apr 2006

Title foams, obtained by reaction of polyols and organic polyisocyanates in the presence of blowing agents, foam stabilizers, catalysts, and additives, contain 0.5-7.0 parts (for 100 parts of the polyols) tetraphenyldipropylene glycol diphosphite (I). Moldings of the foams are useful for wearing apparels such as brassiere pads and shoulder pads, sanitary goods such as napkins and diapers, and cosmetics such as puffs. Thus, a composition containing glycerinbased polyether polyol, dipropylene glycol, H2O, I, Tinuvin 213 (UV absorber), antioxidant, and TDI 80 was blown to give a test piece showing low change in vellowing index after exposure to NOx.

136457-10-8, Tinuvin 213

RL: COS (Cosmetic use); MOA (Modifier or additive use); TEM (Technical or engineered material use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(UV absorbers; flexible polyurethane foams with good yellowing resistance in exposure to nitrogen oxide)

RN 136457-10-8 HCAPLUS

Poly(oxy-1,2-ethanediyl), α -[2-(2H-benzotriazol-2-yl)-6-(1,1dimethylethyl)-4-(3-methoxy-3-oxopropyl)phenyl]-@-hydroxy- (CA INDEX NAME)

L84 ANSWER 2 OF 16 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2005:545908 HCAPLUS Full-text

DOCUMENT NUMBER: 143:79627

TITLE: Compositions containing benzotriazole derivatives and polyoxyethylene ether sulfate salts as lightfastness

improving agents for hydrophobic fibers and dyeing hydrophobic fibers using the agents therefrom

INVENTOR(S): Izutsu, Kiyosumi; Takeda, Kenji; Matsuyama, Shigeru

PATENT ASSIGNEE(S): Nippon Kayaku Co., Ltd., Japan; Nippon Kayaku Fukuyama

Co., Ltd.

SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.
CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO. DATE	
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JP 2005163238	A	20050623	JP 2003-406186 2003120	4 <
PRIORITY APPLN. INFO.:			JP 2003-406186 2003120	4 <
OTHER SOURCE(S):	MARPAT	143:79627		

ED Entered STN: 24 Jun 2005

GI

AB The compns. (Al) comprise I (Rl = Cl-12 linear or branched alkyl, cumyl; R2 = OH, Cl-12 linear or branched alkyl, Cl-12 linear or branched alkoxy, benzyloxy; R3 = H, OH, Cl-12 linear or branched alkoxy; R4 = H, OH; X = H, Cl), and II (R5, R6 = C6-18 alkyl, stearyl, benzyl; n = l-15; m = O-1, M = Na, NH4), or the compns. comprise above Al compns. having I consisting of 2-(2'-

hydroxy-3'-tert-buty1-5'-methylphenyl)-5-chlorobenzotriazole (III). The lightfastness improving agents (A2) for hydrophobic fibers consist of above Al compns. The dyed fibers are prepared by dyeing hydrophobic fibers using above A2 lightfastness improving agents, and disperse dyes and/or disperse-type cationic dyes. An aqueous composition containing 20.0% III (Tinuvin 326) and 14.4% polyethylene glycol nonylphenyl ether sulfate ammonium salt (Hitenol NE-053) was pulverized in a sand grinder for 10 h to give a dispersed composition(A3). A woven polyester tropical was dyed with a liquid containing 10 mg C.I. Disperse Blue 54 and 100 mg dispersed A3 composition for 60 min at 130°, washed, dried, and heat-treated 30 s at 180° in a pin tenter to give a dyed fabric showing lightfastness rating (JIS 0874-74, gray scale, 5 most superior rating) 4-5 on exposing the fabric to light in a fadeometer for 288 h at 89°.

- IT 917952-95-5, Polyethylene glycol 2,4-dinonylphenyl ether sulfate ammonium salt
 - RL: MOA (Modifier or additive use); PRP (Properties); USES (Uses) (Hitenol NE 053, dispersing agent; compns. containing benzotriazole derivs. and polyoxyethylene ether sulfate salts as lightfastness improving agents for hydrophobic fibers and dyeing hydrophobic fibers using the agents therefrom)
- RN 917952-95-5 HCAPLUS
- CN Poly(oxy-1,2-ethanediyl), α-sulfo-ω-(2,4-dinonylphenoxy)-, ammonium salt (1:1) (CA INDEX NAME)

■ NH ?

- IT 3896-11-5, Tinuvin 326
 - RL: MOA (Modifier or additive use); PRP (Properties); USES (Uses) (lightfastness improving agent; compns. containing benzotriazole derivs. and polyoxyethylene ether sulfate salts as lightfastness improving agents for hydrophobic fibers and dyeing hydrophobic fibers using the agents therefrom)
- RN 3896-11-5 HCAPLUS
- CN Phenol, 2-(5-chloro-2H-benzotriazol-2-yl)-6-(1,1-dimethylethyl)-4-methyl-(CA INDEX NAME)

L84 ANSWER 3 OF 16 HCAPLUS COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 2005:141200 HCAPLUS Full-text

DOCUMENT NUMBER: 142:254568

TITLE: Methods and compositions for increasing the efficacy of biologically-active ingredients such as antitumor

agents

INVENTOR(S): Windsor, J. Brian; Roux, Stan J.; Lloyd, Alan M.;

Thomas, Collin E.

PATENT ASSIGNEE(S): Board of Regents, the University of Texas System, USA SOURCE: PCT Int. Appl., 243 pp.

SOURCE: PCT Int. Appl.
CODEN: PIXXD2

DOCUMENT TYPE: Patent
LANGUAGE: English

LANGUAGE: English FAMILY ACC. NUM. COUNT: 1

PATENT	INFORMATION:	

WO 2005014777 A2 20050217 WO 2003-US32667 2003101	- 5 <			
WO 2005014777 A3 20050915	20031016 <			
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, C	1,			
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, G	Ξ,			
GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, L				
LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, N				
OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, T	1,			
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, B	ζ,			
KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, E.	3,			
FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, T	₹,			
BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, T				
CA 2502148 A1 20050217 CA 2003-2502148 2003101	20031016 <			
AU 2003304398 A1 20050225 AU 2003-304398 2003101				
EP 1576150 A2 20050921 EP 2003-816736 2003101	S <			
EP 1576150 A3 20051102				
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, P	Γ,			
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
US 20060276339 A1 20061207 US 2006-531744 2006012:	20060123 <			
PRIORITY APPLN. INFO.: US 2002-418803P P 2002101	P 20021016 <			
WO 2003-US32667 W 2003101	W 20031016 <			

ED Entered STN: 18 Feb 2005

BB The invention provides methods and compns. for modulating the sensitivity of cells to cytotoxic compds. and other active agents. In accordance with the invention, compns. are provided comprising combinations of ectophosphatase inhibitors and active agents. Active agents include antibiotics, fungicides, herbicides, insecticides, chemotherapeutic agents, and plant growth regulators. By increasing the efficacy of active agents, the invention allows use of compns. with lowered concns. of active ingredients.

IT 50-00-0, Formaldehyde, biological studies 2440-22-4

18249-20-2 26027-38-3 51609-41-7

53404-04-9 70024-53-2 856668-65-0

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(methods and compns. for increasing efficacy of biol. active ingredients such as antitumor agents)

RN 50-00-0 HCAPLUS

CN Formaldehyde (CA INDEX NAME)

H2C==0

- RN 2440-22-4 HCAPLUS
- CN Phenol, 2-(2H-benzotriazol-2-yl)-4-methyl- (CA INDEX NAME)

- RN 18249-20-2 HCAPLUS
- CN Poly(oxy-1,2-ethanediy1), α-[4-(1,1-dimethylethyl)phenyl]-ωhydroxy- (CA INDEX NAME)

- RN 26027-38-3 HCAPLUS
- CN Poly(oxy-1,2-ethanediy1), α-(4-nonylpheny1)-ω-hydroxy- (CA INDEX NAME)

- RN 51609-41-7 HCAPLUS
- CN Poly(oxy-1,2-ethanediy1), α -(4-nonylpheny1)- ω -hydroxy-, phosphate (CA INDEX NAME)
 - CM 1
 - CRN 26027-38-3
 - CMF (C2 H4 O)n C15 H24 O
 - CCI PMS

CM 2

CRN 7664-38-2 CMF H3 O4 P

RN 53404-04-9 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α -[4-(1,1,3,3-tetramethylbutyl)phenyl]ω-hydroxy-, compd. with iodine (9CI) (CA INDEX NAME)

CM 1

CRN 9002-93-1

CMF (C2 H4 O)n C14 H22 O CCI PMS

$$\begin{array}{c} \text{Me} \\ \text{Me} \\ \text{SC-CH}_2 \\ \text{Ne} \end{array} \\ \begin{array}{c} \text{O-CH}_2 \\ \text{CH}_2 \\ \text{O-CH}_2 \\ \text{O-CH}_2 \\ \text{Ne} \end{array} \\ \end{array}$$

CM 2

CRN 7553-56-2

CMF I2

I-I

Poly[oxy(methyl-1,2-ethanediyl)], α-(4-nonylphenyl)-ω-hydroxy-(CA INDEX NAME)

$$\text{Me} - (\text{CH}_2) \, \text{g}$$

$$\text{C} - (\text{C}_3 \text{H}_6) \, \frac{1}{n} \, \text{OH}$$

RN 856668-65-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α -(ethoxyhydroxyphosphinyl)- ω -(4nonylphenoxy)-, magnesium salt (2:1) (9CI) (CA INDEX NAME)

$$\mathsf{EtO} - \bigcup_{\mathsf{CH}}^{\mathsf{O}} - \mathsf{CH}_2 - \mathsf{CH}_$$

■1/2 Mar

REFERENCE COUNT: THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L84 ANSWER 4 OF 16 HCAPLUS COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 2005:13585 HCAPLUS Full-text

DOCUMENT NUMBER: 142:76112

TITLE: Weather-resistant agents and method for treating

colored materials with them

INVENTOR(S): Noborio, Kazuhiko

PATENT ASSIGNEE(S): Nippon Kayaku Co., Ltd., Japan; NS Color Techno K. K.; Rise Chemical Research Y. K.

SOURCE: Jpn. Kokai Tokkyo Koho, 18 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2005002484	A	20050106	JP 2003-164736	20030610 <
PRIORITY APPLN. INFO.:			JP 2003-164736	20030610 <
OTHER SOURCE(S):	MARPAT	142:76112		

ED Entered STN: 07 Jan 2005

AB The agents, useful for natural or synthetic fibers, leather, paper, and rush materials, contain copolymers (A) from ethylenic double bond-containing benzophenone and/or benzotriazole compds. and (meth)acrylic esters and/or hydroxyethyl (meth)acrylate and semicarbazide compds. (B). Thus, immersing a dved cotton knit in a composition containing a 95:5 mixture of copolymer from Aqualon HS 20 (reactive emulsifier) 15, 2-hydroxy-4-

methacryloyloxyethoxybenzophenone 45, Me methacrylate (II) 30, 2-hydroxyethyl methacrylate (III) 20, and acrylic acid (III) 5 parts and 1,6-hexamethylenebis(N,N-dimethylsemicarbazide) (IV) 35, a 95:5 mixture of Aqualon HS 20-RUVA 93 [2-(2-hydroxy-5-methacryloyloxyphenyl)-2H-benzotriazole]-I-III copolymer and IV 35, 5% 2-hydroxymethoxy-5-sulfobenzophenone 15, and 5% 3-[3-tert-butyl-5-(chloro-2H-benzotriazol-2-yl)-4-hydroxyphenyl]proplonic acid 15 parts resulted in qood discoloration prevention.

IT 83573-67-5

RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)

(light stabilizer, agent optionally containing; weather-resistant agents containing benzophenone and/or benzotriazole polymers and semicarbazide compds. for dyed fibers, leather, paper, and tatami mat)

RN 83573-67-5 HCAPLUS

CN Benzenepropanoic acid, 3-(5-chloro-2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxy- (CA INDEX NAME)

$$\overset{\text{CH}_2-\text{CH}_2-\text{CO}_2}{\underset{\text{II}}{\text{OH}}} = \overset{\text{CH}_2-\text{CH}_2-\text{CO}_2}{\underset{\text{Bu-t}}{\text{CH}_2-\text{CO}_2}}$$

II 812665-09-1P, Acrylic acid-Aqualon HS 20-2-hydroxyethyl methacrylate-2-hydroxy-4-methacryloytoxy-4-methacryloytoxy-benzophenone-methyl methacrylate copolymer 812665-10-4P RL: IMF (Industrial manufacture); MOA (Modifier or additive use); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (weather-resistant agents containing benzophenone and/or benzotriazole

polymers and semicarbazide compds. for dyed fibers, leather, paper, and tatami mat)

RN 812665-09-1 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, 2-(4-benzoyl-3-hydroxyphenoxy)ethyl ester,
polymer with 2-hydroxyethyl 2-methyl-2-propenoate, methyl
2-methyl-2-propenoate, 2-propenoic acid and
a-sulfo-o-(4-nowl-2-(1-propeny))phenoxy)poly(oxy-1,2-

ethanedivl) ammonium salt, graft (9CI) (CA INDEX NAME)

CM :

CRN 140651-97-4 CMF (C2 H4 O)n C18 H28 O4 S . H3 N CCI PMS

● NH3

RN 812665-10-4 HCAPLUS

Page 20 of 110

CN 2-Propenoic acid, 2-methyl-, 2-[3-(2H-benzotriazol-2-yl)-4-hydroxyphenyl]ethyl ester, polymer with 2-hydroxyethyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate, 2-propenoic acid and α -sulfo-o-[4-nonyl-2-(1-propenyl)phenoxyl)poly(oxy-1,2-ethanediyl) amonium salt, graft (9CI) (CA INDEX NAME)

CM

CRN 140651-97-4

CMF (C2 H4 O)n C18 H28 O4 S . H3 N

CCI PMS

$$\label{eq:ho3s} \operatorname{Ho3s-} \underbrace{\qquad \qquad }_{\operatorname{Me-CH-CH}} \operatorname{CH2} \operatorname{8-Me}$$

● NH3

CM 2

CRN 96478-09-0 CMF C18 H17 N3 O3

CM 3

CRN 868-77-9

CMF C6 H10 O3

CM 4

CRN 80-62-6

CMF C5 H8 O2

CM 5

CRN 79-10-7 CMF C3 H4 O2

L84 ANSWER 5 OF 16 HCAPLUS COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 2004:872823 HCAPLUS Full-text

DOCUMENT NUMBER:

141:366906

TITLE:

Light stabilizing polymer dispersants in pigment

dispersions

Vogel, Thomas; Soder, Sibylle; Simmendinger, Peter INVENTOR(S): Ciba Specialty Chemicals Holding Inc., Switz. PATENT ASSIGNEE(S):

PCT Int. Appl., 96 pp. SOURCE:

CODEN: PIXXD2 Patent

DOCUMENT TYPE: LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

PA	PATENT NO.						KIND DATE				APPLICATION NO.						DATE			
WO	2004	0900	30		A1		2004	1021		WO 2	004-	EP50	386		2	0040	329 <			
	W:						ΑU,													
							DE,													
		GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KΕ,	KG,	KΡ,	KR,	ΚZ,	LC,			
							LV,													
							PL,													
							TZ,													
	RW:						MW,													
							TJ,													
							HU,													
				BF,	ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,			
		TD,																		
																	329 <			
	2520				A1		2004										329 <			
EP	1611				A1												329 <			
	R:																PT,			
			SI,	LT,													SK			
	1802				A		2006										329 <			
	2006																329 <			
	2006						2006										005 <			
	2005				A		2007	0302									107 <			
PRIORIT	Y APP	LN.	INFO	. :						EP 2	003-	4052	35	- 1	A 2	0030	408 <			

WO 2004-EP50386 W 20040329 <--

OTHER SOURCE(S): MARPAT 141:366906

ED Entered STN: 21 Oct 2004

AB Polymers based on esters of unsatd. acids and having light-protecting groups attached to the chains are manufactured by atom-transfer radical polymerization and are useful for dispersants of pigments in compms. based on materials susceptible to degradation by light, heat, and oxidation so as to prevent this degradation A typical polymer was manufactured by polymerization of Bu methacrylate in the presence of CuCl, pentamethyldiethylenetriamine (I), and p-toluenesulfonic acid, polymerization of glycidyl methacrylate in the presence of the resulting polymer, I, and CuCl, and reaction of the resulting block copolymer with 2,4-bis[4-(1,1'-biphenyly1)]-6-(2,4-dihydroxyphenyl)triazine

IT 10096-91-0DP, 2-(2-Hydroxyphenyl)benzotriazole, reaction products with polymers 776323-55-8P 776323-58-1P 778595-77-0P

RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)

(light-stabilizing polymer dispersants for pigments in compns. based on polymers susceptible to light degradation)

RN 10096-91-0 HCAPLUS

CN Phenol, 2-(2H-benzotriazol-2-yl)- (CA INDEX NAME)

RN 776323-55-8 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-[4-[4,6-bis([1,1'-biphenyl]-4-y1)-1,3,5-triazin-2-y1]-3-hydroxyphenoxy]ethyl setter, polymer with butyl 2-methyl-2-propenoate, diblock (9CI) (CA INDEX NAME)

CM 1

CRN 776323-54-7 CMF C39 H31 N3 O4

CM 2

CRN 97-88-1

CMF C8 H14 O2

RN 776323-58-1 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(2-benzoyl-5-hydroxyphenoxy)ethyl ester, polymer with butyl 2-methyl-2-propenoate, diblock (9CI) (CA INDEX NAME)

CM 1

CRN 776323-57-0 CMF C19 H18 O5

CM 2

CRN 97-88-1 CMF C8 H14 O2

RN 778595-77-0 HCAPLUS

N 2-Propencia acid, 2-methyl-, 2-[4-(2H-benzotriazol-2-yl)-3hydroxyphenyl]ethyl ester, polymer with butyl 2-methyl-2-propencate, diblock (9CI) (CA INDEX NAME)

CM 1

CRN 161538-31-4

CMF C18 H17 N3 O3

$$\underbrace{ \overset{\text{CH}_2-\text{CH}_2-\text{O}}{\bigcup_{H}} \overset{\text{CH}_2-\text{CH}_2-\text{O}}{\bigcup_{H}} \overset{\text{CH}_2-\text{CH}_2-\text{O}}{\bigcup_{H}} }_{\text{Me}}$$

CM 2

CRN 97-88-1 CMF C8 H14 O2

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD, ALL CITATIONS AVAILABLE IN THE RE FORMAT

L84 ANSWER 6 OF 16 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2004:433778 HCAPLUS Full-text
DOCUMENT NUMBER: 141:8720

TITLE: Polymeric dispersants to improve smear in printing

INVENTOR(S): Sacoto, Paul; Sun, Jing X.; Sun, Naiyu

PATENT ASSIGNEE(S): Lexmark International, Inc., USA

SOURCE: U.S. Pat. Appl. Publ., 13 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.																		
US 20040102541 US 6984701							US 2002-304592						20021126 <					
WO	2005	1187	16		A1		2005	1215		WO 2004-US16332						20040525 <		
	W: RW:	CN, GE, LK, NO, TJ, BW, AZ, EE,	CO, GH, LR, NZ, TM, GH, BY, ES,	CR, GM, LS, OM, TN, GM, KG,	CU, HR, LT, PG, TR, KE, KZ,	CZ, HU, LU, PH, TT, LS, MD, GB,	AU, DE, ID, LV, PL, TZ, MW, RU, GR, CF,	DK, IL, MA, PT, UA, MZ, TJ, HU,	DM, IN, MD, RO, UG, NA, TM, IE,	DZ, IS, MG, RU, US, SD, AT, IT,	EC, JP, MK, SC, UZ, SL, BE, LU,	EE, KE, MN, SD, VC, SZ, BG, MC,	EG, KG, MW, SE, VN, TZ, CH, NL,	ES, KP, MX, SG, YU, UG, CY, PL,	FI, KR, MZ, SK, ZA, ZM, CZ, PT,	GB, KZ, NA, SL, ZM, ZW, DE, RO,	GD, LC, NI, SY, ZW AM, DK, SE,	
BR CN	2004 2004 1863 1753	SN, 3200 0115 865	TD, 23 16	TG			2006 2006 2006 2007	0119 0801 1115		AU 2 BR 2 CN 2 EP 2	004- 004- 004-	3200 1151 8001	23 6 9887		21	0040 0040 0040	525 < 525 < 525 < 525 <	

Page 25 of 110

Serial No.:10/582,307 R: DE, FR, GB PRIORITY APPLN. INFO .: US 2002-304592 A 20021126 <--WO 2004-US16332 A 20040525 <--ED Entered STN: 28 May 2004 This invention relates to polymeric dispersants useful in ink jet ink compns. AB The graft polymers comprise monomers having electron rich functional groups, which exhibit favorable interactions with the surface of pigment particles thereby better stabilizing the pigment dispersion within the aqueous ink composition. The graft polymers also comprise hydrophobic monomers having the ability to form hydrogen bonding. The polymers of the present invention provide a dispersant that increases the smear resistance of pigmented inks, especially when used on photo or gelatin paper. The graft polymers also provide excellent chroma for printing. The present invention also relates to aqueous ink compns. which include those polymeric dispersants. Thus, methacrylic acid 24.0, 2-hydroxyethyl methacrylate 20.0, and polypropylene glycol 4-nonylphenyl ether acrylate 45.0 g were polymerized to give a graft copolymer dispersant with Mw 8211 and Mn 4523, 20% KOH was added therein and mixed with a pigment (dispersant:pigment = 1:1), maintained pH at 7.5 using 20% KOH, and diluted to give a 12-15%-solids premix, the resulting premix was mixed with pigment 3, 2-pyrrolidone 5, polyethylene glycol 5, thiodiethanol 5, and 1,2-hexanediol 1%, and water to give an ink composition showing good smear resistance and water fastness property. 693813-90-0P 693813-93-3P 693813-96-6P 693813-99-9P 693814-02-7P 694439-33-3P, Ethylene oxide-2-(2'-hydroxy-5'-methacryloxyethylphenyl)-2H-benzotriazolemethacrylic acid graft copolymer 2,4,6-tris(1-phenylethyl)phenyl ether potassium salt 694439-35-5P, Ethylene oxide-2-hydroxyethyl methacrylate-2-(2'-hydroxy-5'-methacryloxyethylphenyl)-2H-benzotriazolemethacrylic acid graft copolymer 2,4,6-tris(1-phenylethyl)phenyl ether potassium salt RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (preparation of polymeric dispersants to improve smear in printing) RN 693813-90-0 HCAPLUS CN 2-Propenoic acid, 2-methyl-, polymer with 2-hydroxyethyl 2-methyl-2-propenoate and α -(1-oxo-2-propenyl)- ω -(4nonvlphenoxy)poly(oxy(methyl-1,2-ethanediyl)), graft, potassium salt (9CI) (CA INDEX NAME) CM 1 CRN 693813-89-7

CMF (C6 H10 O3 . C4 H6 O2 . (C3 H6 O)n C18 H26 O2)x CCT PMS

CM

CRN 72246-47-0

CMF (C3 H6 O)n C18 H26 O2 CCI IDS, PMS

2

$$_{\rm H_2C} = _{\rm CH-} \overset{\circ}{\overset{\circ}{\bigcup}} - \overset{\circ}{\overset{\circ}{\bigcup}} \circ - (_{\rm C3H_6}) \overset{\circ}{\overset{\circ}{\bigcup}} \overset{\circ}{\overset{\circ}{\bigcup}} \circ \overset{\circ}{\overset{\circ}{\overset{\circ}{\bigcup}} \circ \overset{\circ}{\overset{\circ}{\bigcup}} \circ \overset{\circ}{\overset{\circ}{\smile}} \circ \overset{\circ}{$$

Page 27 of 110

```
CM 3
         CRN 72246-47-0
         CMF (C3 H6 O)n C18 H26 O2
         CCI IDS, PMS
                -0- (C3H6) n (CH2)8-Me
         CM 4
         CRN 868-77-9
         CMF C6 H10 O3
H2C 0
Me C C C C C H2 C C H2 O H
         CM 5
         CRN 79-41-4
         CMF C4 H6 O2
Me_C_CO2H
RN 693813-96-6 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with 2-hydroxyethyl
    2-methyl-2-propenoate and \alpha-(2-methyl-1-oxo-2-propenyl)-\omega-
    [2,4,6-tris(1-phenylethyl)phenoxy]poly(oxy-1,2-ethanediyl), graft,
    potassium salt (9CI) (CA INDEX NAME)
    CM 1
    CRN 693813-95-5
    CMF (C6 H10 O3 . C4 H6 O2 . (C2 H4 O)n C34 H34 O2)x
    CCI PMS
         CM 2
```

Page 28 of 110

CRN 174200-85-2

$$\begin{array}{c} \text{Ph} \\ \text{Me-LH} \\ \text{O} \\ \text{D} \\ \text{D$$

CM 3

CRN 868-77-9 CMF C6 H10 O3

CM 4

CRN 79-41-4 CMF C4 H6 O2

```
RN 693813-99-9 HCAPLUS
```

CN 2-Propenoic acid, 2-methyl-, polymer with 2-[3-(2H-benzotriazol-2-yl)-4-hydroxyphenyl]ethyl 2-methyl-2-propenoate and a-(2-methyl-1-oxo-2-propenyl)-0-[2,4,6-tris(1-

phenylethyl)phenoxy]poly(oxy-1,2-ethanediyl), graft, potassium salt (9CI)

(CA INDEX NAME)

CM 1

CRN 693813-98-8

CMF (C18 H17 N3 O3 . C4 H6 O2 . (C2 H4 O)n C34 H34 O2)x

CCI PMS

CM 2

CRN 174200-85-2

CMF (C2 H4 O)n C34 H34 O2

CCI PMS

CM 3

CRN 96478-09-0 CMF C18 H17 N3 O3

CM 4

CRN 79-41-4 CMF C4 H6 O2

Me_C_CO2H

RN 693814-02-7 HCAPLUS CN

2-Propenoic acid, 2-methyl-, polymer with

2-[3-(2H-benzotriazol-2-yl)-4-hydroxyphenyl]ethyl 2-methyl-2-propenoate, 2-hydroxyethyl 2-methyl-2-propenoate and

 α -(2-methyl-1-oxo-2-propenyl)- ω -[2, 4,6-tris(1-

phenylethyl)phenoxylpoly(oxy-1,2-ethanediyl), graft, potassium salt (9CI) (CA INDEX NAME)

CM

CRN 693814-01-6

CMF (C18 H17 N3 O3 , C6 H10 O3 , C4 H6 O2 , (C2 H4 O)n C34 H34 O2)x

CCI PMS

CM 2

CRN 174200-85-2

CMF (C2 H4 O)n C34 H34 O2 CCI PMS

$$\begin{array}{c} \text{Ph} \\ \text{Me-CH} \end{array} \begin{array}{c} \text{Ph} \\ \text{CH}_2 - \text{CH}_2 - \text{CH}_2 - \text{O} \end{array} \begin{array}{c} \text{CH}_2 \\ \text{Ne-CH} \end{array}$$

CM 3

CRN 96478-09-0 CMF C18 H17 N3 O3

CM 4

CRN 868-77-9 CMF C6 H10 O3

- O- CH2-CH2-OH

CM 5

CRN 79-41-4

CMF C4 H6 O2

RN 694439-33-3 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with

2-[3-(2H-benzotriazol-2-y1)-4-hydroxyphenyl]ethyl 2-methyl-2-propenoate and oxirane, 2,4,6-tris(1-phenylethyl)phenyl ether, graft, potassium salt (9CI) (CA INDEX NAME)

CM 1

CRN 18254-13-2 CMF C30 H30 O

CM 2

CRN 694439-32-2 CMF (C18 H17 N3 O3 . C4 H6 O2 . C2 H4 O)x

CCI PMS

CM 3

CRN 96478-09-0 CMF C18 H17 N3 O3

CM 4

CRN 79-41-4

CMF C4 H6 O2

CM 5

CRN 75-21-8 CMF C2 H4 O



RN 694439-35-5 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with
2-[3-(2H-benzotriazol-2-yl)-4-hydroxyphenyl]ethyl 2-methyl-2-propenoate,
2-hydroxyethyl 2-methyl-2-propenoate and oxirane,
2,4,6-tris(1-phenylethyl)phenyl ether, graft, potassium salt (9CI) (CA INDEX NAME)

CM 1

CRN 18254-13-2
CMF C30 H30 O

CM 2

CRN 694439-34-4 CMF (C18 H17 N3 O3 . C6 H10 O3 . C4 H6 O2 . C2 H4 O)x CCI PMS

CM

CRN 96478-09-0 CMF C18 H17 N3 O3

3

CM 4

CRN 868-77-9 CMF C6 H10 O3

H2C Me_C_C_C_O_CH2_CH2_OH

CM 5

CRN 79-41-4 CMF C4 H6 O2

CH2 Me_U_COSH

CM 6

CRN 75-21-8 CMF C2 H4 O

ے

REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L84 ANSWER 7 OF 16 HCAPLUS COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 2003:771639 HCAPLUS Full-text

DOCUMENT NUMBER: 139:293337

Thermally insulating linings

INVENTOR(S): Saegusa, Koichi; Horiike, Taizo; Kubo, Kenzo

PATENT ASSIGNEE(S): Toray Industries, Inc., Japan

SOURCE: Jpn. Kokai Tokkvo Koho, 9 pp. CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE ----______ JP 2003278017 A 20031002 JP 2002-80270 JP 2002-80270 20020322 <--PRIORITY APPLN. INFO.: OTHER SOURCE(S): MARPAT 139:293337

ED Entered STN: 02 Oct 2003

- AB Linings are prepared from fibers containing 3-60% poly(phenylene sulfides) (1) and ≥1 fiber selected from cotton, wool, polyacrylonitrile, polyester, and polyamide fibers. Thus, a lining was prepared from 60% long fibers of I impregnated with 2-(2'-hydroxy-3'-tert-buty1-5'-methylphenyl)-5-chlorobenzotriazole and 40% 70-30 acrylic-wool.
- IT 3896-11-5, 2-(2'-Hydroxy-3'-tert-butyl-5'-methylphenyl)-5chlorobenzotriazole 9004-78-80, Polyethylene glycol phenyl
 ether, styrenated
 RL: MOA (Modifier or additive use); USES (Uses)
 (thermally insulating linings containing poly(phenylene sulfide) fibers and
 other fibers)
- RN 3896-11-5 HCAPLUS
 CN Phenol, 2-(5-chloro-2H-benzotriazol-2-yl)-6-(1,1-dimethylethyl)-4-methyl(CA INDEX NAME)

RN 9004-78-8 HCAPLUS

CN Poly(oxy-1,2-ethanediy1), α-phenyl-ω-hydroxy- (CA INDEX NAME)

L84 ANSWER 8 OF 16 HCAPLUS COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 2003:711699 HCAPLUS Full-text

DOCUMENT NUMBER: 139:246970

TITLE: Ultraviolet ray absorbents and polymer-bond benzotriazole ultraviolet ray absorbents and

manufacture methods and treated articles and treating

methods
INVENTOR(S): Shimanaka, Hiroyuki; Saikatsu, Hiroaki; Fukuda,

Tetsuo; Yamashita, Rokuya; Nakamura, Michie

PATENT ASSIGNEE(S): Dainichiseika Color and Chemical Mfg. Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 21 pp.
CODEN: JKXXAF

DOCUMENT TYPE: Patent
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003253248	A	20030910	JP 2002-56283	20020301 <
JP 2007169660	A	20070705	JP 2007-67200	20070315 <
PRIORITY APPLN. INFO.:			JP 2002-56283 A3	20020301 <
ED Entered STN: 11 Se	p 2003			

- AB 2-(2', 4'-Dihydroxyphenyl)-2H-benzotriazole (I) is treated with epoxides or alc. OH group-containing halogen compds. to prepare reactive UV absorbers. Thus, I was treated with 4-chloro-1-butanol to prepare 2-benzotriazole-2-yl-5-(4'-hydroxybutoxy)phenol, which (70.8 parts) was treated with 100 parts 25:75 Et acrylate-ethylene copolymer to prepare a polymer-bond UV absorb
- IT 5538-26-1P 24802-38-8P 25177-21-3P 596851-33-1P 596851-35-3P 596851-36-4P

596851-37-5P 596851-38-6P 596851-39-7P
RL: INF (Industrial manufacture); RCT (Reactant); TEM (Technical or engineered material use); PREP (Preparation); RACT (Reactant or reagent);

USES (Uses)
(polymer-bond benzotriazole UV absorbents for inks and coatings and
cosmetics and photog, materials)

RN 5538-26-1 HCAPLUS

CN 1,2-Propanediol, 3-[4-(2H-benzotriazol-2-yl)-3-hydroxyphenoxy]- (CA INDEX NAME)

RN 24802-38-8 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 3-[4-(2H-benzotriazol-2-yl)-3-hydroxyphenoxy]2-hydroxypropyl ester (CA INDEX NAME)

RN 25177-21-3 HCAPLUS

CN 2-Propenoic acid, 3-[4-(2H-benzotriazol-2-y1)-3-hydroxyphenoxy]-2hydroxypropyl ester (CA INDEX NAME)

CN Phenol, 2-(2H-benzotriazol-2-yl)-5-(4-hydroxybutoxy)- (CA INDEX NAME)

- RN 596851-35-3 HCAPLUS
- CN Phenol, 2-(5-chloro-2H-benzotriazol-2-y1)-5-[2-(2-hydroxyethoxy)ethoxy]-(CA INDEX NAME)

- RN 596851-36-4 HCAPLUS
- CN Phenol, 2-(2H-benzotriazol-2-yl)-5-(2-hydroxy-3-phenoxypropoxy)- (CA INDEX NAME)

- RN 596851-37-5 HCAPLUS
- CN Phenol, 2-(5-chloro-2H-benzotriazol-2-yl)-5-(2-hydroxy-3-methoxypropoxy)-(CA INDEX NAME)

- RN 596851-38-6 HCAPLUS
- CN Phenol, 3,3'-[1,4-butanediylbis[oxy(2-hydroxy-3,1-propanediyl)oxy]]bis[6-(2H-benzotriazol-2-yl)- (9CI) (CA INDEX NAME)

$$\bigcap_{\text{N}} \bigcap_{\text{N}} \bigcap_{\text{D}} \bigcap_{\text{CH}_2 - \text{CH}_2 - \text{CH$$

PAGE 1-B

- RN 596851-39-7 HCAPLUS
- CN Phenol, 3,3'-[[2,2-bis[(oxiranylmethoxy)methyl]-1,3-propanediyl]bis[oxy(2-hydroxy-3,1-propanediyl)oxy]]bis[6-(2H-benzotriazol-2-yl)- (9CI) (CA INDEX NAME)

PAGE 1-B

Page 38 of 110

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111236-05-6P 596851-34-2P 596851-40-0P
    596851-41-1P 596851-43-3P 596851-44-4P
    596851-45-5P
    RL: IMF (Industrial manufacture); TEM (Technical or engineered material
    use); PREP (Preparation); USES (Uses)
       (polymer-bond benzotriazole UV absorbents for inks and coatings and
       cosmetics and photog. materials)
    111236-05-6 HCAPLUS
RN
CN
    2-Propenoic acid, 2-methyl-, 3-[4-(2H-benzotriazol-2-yl)-3-hydroxyphenoxy]-
    2-hydroxypropyl ester, polymer with ethenylbenzene (9CI) (CA INDEX NAME)
    CM 1
    CRN 24802-38-8
    CMF C19 H19 N3 O5
                      , о_ cн2_ Сн_ сн2_ о_ С _ С _ м-
    CM 2
    CRN 100-42-5
    CMF C8 H8
H2C==CH-Ph
RN
    596851-34-2 HCAPLUS
CN
    2-Propenoic acid, ethyl ester, polymer with
    2-(2H-benzotriazol-2-yl)-5-(4-hydroxybutoxy)phenol and ethene (9CI) (CA
    INDEX NAME)
    CM 1
    CRN 596851-33-1
    CMF C16 H17 N3 O3
                      O- (CH2)4-OH
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CM 2
    CRN 140-88-5
    CMF C5 H8 O2
    CM 3
    CRN 74-85-1
    CMF C2 H4
H2C==CH2
   596851-40-0 HCAPLUS
RN
CN
   1,4-Benzenedicarboxylic acid, dimethyl ester, polymer with
    3-[4-(2H-benzotriazol-2-yl)-3-hydroxyphenoxy]-1,2-propanediol and
    1,4-butanediol (9CI) (CA INDEX NAME)
    CM 1
    CRN 5538-26-1
    CMF C15 H15 N3 O4
```

CM 2

CRN 120-61-6 CMF C10 H10 O4

CM 3

CRN 110-63-4 CMF C4 H10 O2

HO- (CH2)4-OH

RN 596851-41-1 HCAPLUS

CN 1,4-Benzenedicarboxylic acid, dimethyl ester, polymer with 1,4-butanediol and 3,3'-[1,4-butanediylbis[oxy(2-hydroxy-3,1-propanediyl)oxy]]bis[6-(2H-benzotriazoi-2-yl)phenol] (9CI) (CA INDEX NAME)

CM 1

CRN 596851-38-6

CMF C34 H36 N6 O8

PAGE 1-B

CM 2

CRN 120-61-6

CMF C10 H10 O4

Page 42 of 110

CM 4

CRN 4767-03-7 CMF C5 H10 O4

CM 5

CRN 4098-71-9 CMF C12 H18 N2 O2

CM 6

CRN 2855-13-2 CMF C10 H22 N2

RN 596851-44-4 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with ethyl 2-methyl-2-propenoate, 2-hydroxyethyl 2-methyl-2-propenoate and 2-hydroxy-3-[3-hydroxy-4-(2H-benzotriazol-2-yl)phenoxy]propyl 2-propenoate (9CI) (CA INDEX NAME)

CM

CRN 25177-21-3

CMF C18 H17 N3 O5

CM 2

CRN 868-77-9

CMF C6 H10 O3

CM 3

CRN 97-88-1

CMF C8 H14 O2

CM 4

CRN 97-63-2 CMF C6 H10 O2

H2C O

RN 596851-45-5 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 3-[4-(2H-benzotriazol-2-y1)-3-hydroxyphenoxy]-2-hydroxypropyl ester, polymer with butyl 2-propenoate, ethyl 2-methyl-2-propenoate and 2-hydroxyethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 24802-38-8

CRN 24802-38-8 CMF C19 H19 N3 O5

$$\begin{array}{c} \text{OH} \\ \text{O-CH}_2-\overset{\text{O}}{\underset{\text{H}}{\bigcup}} \text{CH}_2-\text{O-}\overset{\text{O}}{\underset{\text{U}}{\bigcup}} \overset{\text{CH}_2}{\underset{\text{U}}{\bigcup}} \\ \text{-Me} \end{array}$$

CM 2

CRN 868-77-9

CMF C6 H10 O3

CM 3

CRN 141-32-2

CMF C7 H12 O2

CM 4

CRN 97-63-2 CMF C6 H10 O2

IT 39382-25-7

RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)

(polymer-bond benzotriazole UV absorbents for inks and coatings and cosmetics and photog. materials)

RN 39382-25-7 HCAPLUS

CN 2-Butenedioic acid (2E)-, polymer with

 $\alpha, \alpha' - [(1-\text{methylethylidene}) \text{di}-4, 1-\text{phenylene}] \text{bis}[\omega-\text{hydroxypoly}[\text{oxy}(\text{methyl}-1, 2-\text{ethanediyl})]]}$ (CA INDEX NAME)

CM 1

CRN 37353-75-6

CMF (C3 H6 O)n (C3 H6 O)n C15 H16 O2

CCI IDS, PMS

$$\mathsf{HO} = (\mathsf{C3H6}) - \mathsf{O} = \mathsf{Me} = \mathsf{O} - (\mathsf{C3H6}) - \mathsf{O} = \mathsf{O}$$

CM 2

CRN 110-17-8 CMF C4 H4 O4

Double bond geometry as shown.

IT 22607-31-4, 2-(2,4-Dihydroxyphenyl)-2H-benzotriazole
57567-95-0

RL: RCT (Reactant); RACT (Reactant or reagent)

(polymer-bond benzotriazole UV absorbents for inks and coatings and cosmetics and photog. materials)

RN 22607-31-4 HCAPLUS

CN 1,3-Benzenediol, 4-(2H-benzotriazol-2-yl)- (CA INDEX NAME)

RN 57567-95-0 HCAPLUS

CN 1,3-Benzenediol, 4-(5-chloro-2H-benzotriazol-2-yl)- (CA INDEX NAME)

L84 ANSWER 9 OF 16 HCAPLUS COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 2003:520420 HCAPLUS Full-text

DOCUMENT NUMBER: 139:86337

TITLE: Antisoiling, weather-resistant waterproof sheets

INVENTOR(S): Suzuki, Kenji

PATENT ASSIGNEE(S): Hiraoka and Co., Ltd., Japan SOURCE: Jpn. Kokai Tokkyo Koho, 28 pp.

CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
JP 2003191386	A	20030708	JP 2002-93052		20020328 <
PRIORITY APPLN. INFO.:			JP 2001-95879	A	20010329 <
			JP 2001-318365	A	20011016 <

ED Entered STN: 09 Jul 2003

- AB The sheets, useful for medium to large-scale tents, etc., consist of a base sheet comprising a base fabric and polymer layer(s) containing natural rubber, synthetic rubber, and/or synthetic resins formed on at least one side of the base fabric, and hydrophilic coating layer(s) containing organizations and/or their condensates formed on the polymer layer(s). Thus, a polyester fabric was coated with a composition containing self-emulsifiable acrylic resin (Nipol SX 1706) 70, primary amino group-containing acrylic resin (Polyment NN-CK 200) 30, light stabilizer (Tinofast RSC) 0.2, UV absorber (Tinuvin 213) 0.2, TiO2 3, and 5-chlorobenzotriazole 0.1 part on the both sides and dried to give a base sheet, which was coated with an aqueous MeOH solution of Me silicate partial hydrolytic condensation product (MKC Silicate MS 56) 100, y-glycidoxypropyltrimethoxysilane 10, and organometallic chelating agent 0.3 part on the both sides and dried to give a product showing long-lasting antisoliting properties during outdoor exposure.
- IT 25189-68-8, 2-Hydroxy-4-(methacryloyloxyethoxy)benzophenone-methyl methacrylate copolymer

RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)

(additive migration-proofing layer, ULI 635L; antisoiling, weather-resistant waterproof sheets coated with silicates)

RN 25189-68-8 HCAPLUS

N 2-Propenoic acid, 2-methyl-, 2-(4-benzoyl-3-hydroxyphenoxy)ethyl ester, polymer with methyl 2-methyl-2-propenoate (CA INDEX NAME)

CM 1

$$\begin{array}{c} ^{\rm H2C} {\rm C} \\ ^{\rm Me} {\rm -} \\ ^{\rm C} {\rm -} \\ ^{\rm C} {\rm -} \\ ^{\rm O} {\rm -} \\ ^{\rm CH} {\rm -} \\ ^{\rm C} {\rm -Ph} \\ \end{array}$$

CRN 80-62-6 CMF C5 H8 O2

25068-38-6, Epikote 828 153175-43-0, Puva 30M RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses) (additive migration-proofing layer; antisoiling, weather-resistant waterproof sheets coated with silicates)

RN 25068-38-6 HCAPLUS

CN Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane (CA INDEX NAME)

CM 1

CRN 106-89-8 CMF C3 H5 C1 O

CM 2

CRN 80-05-7

CMF C15 H16 O2

RN 153175-43-0 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-[3-(2H-benzotriazol-2-yl)-4hydroxyphenyl]ethyl ester, polymer with methyl 2-methyl-2-propenoate (CA INDEX NAME)

CM 1

CRN 96478-09-0 CMF C18 H17 N3 O3

CM 2

CRN 80-62-6 CMF C5 H8 O2

- II 136457-10-8, Tinuvin 213
 RL: MOA (Modifier or additive use); USES (Uses)
 (base fabric coating containing; antisoiling, weather-resistant waterproof sheets coated with silicates)
- RN 136457-10-8 HCAPLUS
- CN Poly(oxy-1,2-ethanediy1), α-[2-(2H-benzotriazol-2-y1)-6-(1,1-dimethylethyl)-4-(3-methoxy-3-oxopropyl)phenyl]-ω-hydroxy-(CA INDEX NAME)

2440-22-4, Tinuvin P 3147-77-1, Viosorb 510 RL: MOA (Modifier or additive use); USES (Uses) (base fabric laminated with film containing; antisoiling, weather-resistant waterproof sheets coated with silicates)

RN 2440-22-4 HCAPLUS

CN Phenol, 2-(2H-benzotriazol-2-yl)-4-methyl- (CA INDEX NAME)

3147-77-1 HCAPLUS RN

CN Phenol, 2-(2H-benzotriazol-2-yl)-5-(octyloxy)- (CA INDEX NAME)

L84 ANSWER 10 OF 16 HCAPLUS COPYRIGHT 2009 ACS on STN

2003:110937 HCAPLUS Full-text ACCESSION NUMBER: DOCUMENT NUMBER: 138:154375

TITLE: Polymeric photostabilizers prepared from reactive UV

absorbers and reactive hindered amines INVENTOR(S): Yamamoto, Ryuichi; Sugimori, Seiji

PATENT ASSIGNEE(S): Ipposha Oil Industries Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkvo Koho, 12 pp.

CODEN: JKXXAF DOCUMENT TYPE: Patent

LANGUAGE: Japanese FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003040937	A	20030213	JP 2001-228438	20010727 <

т

PRIORITY APPLN. INFO.: ED Entered STN: 13 Feb 2003 JP 2001-228438

20010727 <--

OH (2)22-1 v1 k

AB The photostabilizers are copolymers (Mw 1000-1,000,000) of UV-absorbing monomers I [R11 = H, C1-6 alkyl(oxy); R12 = C1-10 (oxy)alkylene; R13 = H, lower alkyl; X1 = ester, amido, ether, or urethane linkage; m1 = 0, 1] and/or II [R21 = H, halo, Me; R22 = H, C1-6 hydrocarbyl; R23 = C1-10 (oxy)alkylene; R24 = (amino or OH group-containing) C1-8 alkylene; R25 = H, lower alkyl; X2 = same as X1; m21, m22 = 0, 1] 15-60, III (R31-R33 = H, lower alkyl) 1-30, vinyl comonomers 30-70, and optionally functional group-bearing vinyl monomers 1-30%. Substrates (e.g., plastics, fibers, paper) are mixed or coated with the photostabilizers to show light resistance for long term. Thus, a dyed acrylic fabric was treated with acrylic acid-ADK Stab LA 82 (1,2,2,6,6-pentamethyl-4-piperidyl methacrylate)-Aqualon HS 20 (reactive emulsifier)-2-hydroxy-4-methacryloyloxybenzophenone-Me methacrylate graft copolymer, showing color fastness grade 5 (JIS L 0804) after 240-h exposure to carbon arc light.

495400-49-2P 495400-52-TP 495400-55-0P 495400-65-0P 495400-58-3P 495400-618-8P 495400-618-8P 496019-42-2P, Acrylic acid-ADK Stab LA 82-ethylene oxide-2-hydroxy-4-acryloyloxybenzophenone-2-[2'-hydroxy-5'-(methacryloyloxy)phenyl)plenzotriazole-methyl methacrylate graft copolymer sulfate ammonium salt 496019-43-3P, Acrylic acid-ADK Stab LA 82-ethylene oxide-2-hydroxy-4-methacryloyloxybenzophenone-2-[2'-hydroxy-5'-(methacryloyloxy)phenyl)benzotriazole-methyl acrylate graft copolymer sulfate ammonium salt 496019-44-4P, Acrylic acid-ADK Stab LA 82-butyl methacrylate-ethylene oxide-2-[2'-hydroxy-5'-

(acryloyloxy)phenyl]benzotriazole graft copolymer sulfate ammonium salt RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(polymeric photostabilizers prepared from reactive UV absorbers and reactive hindered amines) $\,$

RN 479500-11-3 HCAPLUS

CN

2-Propenoic acid, 2-methyl-, methyl ester, polymer with 3-(2H-benzotriazol-2-yl)-4-hydroxyphenyl 2-propenoate,

4-benzoy1-3-hydroxyphenyl 2-propenoate and 1,2,2,6,6-pentamethyl-4-piperidinyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 158037-94-6 CMF C15 H11 N3 O3

CM 2

CRN 68548-08-3 CMF C14 H25 N O2

CM 3

CRN 15419-94-0

CMF C16 H12 O4

CM 4

CRN 80-62-6 CMF C5 H8 O2

RN 479500-12-4 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 3-(2H-benzotriazol-2-yl)-4-hydroxyphenyl ester, polymer with methyl 2-methyl-2-propenoate and 1,2,2,6,6-pentamethyl-4-piperidinyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 132288-91-6 CMF C16 H13 N3 O3

CM 2

CRN 68548-08-3 CMF C14 H25 N O2

CM 3

CRN 80-62-6 CMF C5 H8 O2

RN 495400-48-1 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 3-(2H-benzotriazol-2-yl)-4-hydroxyphenyl ester, polymer with 4-benzoyl-3-hydroxyphenyl 2-propenoate, methyl 2-methyl-2-propenoate, methyl 2-propenoate and 1,2,2,6,6-pentamethyl-4-piperidinyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 132288-91-6 CMF C16 H13 N3 O3

CM 2

CRN 68548-08-3 CMF C14 H25 N O2

$$\begin{array}{c|c} \text{H}_2\text{C} & \text{O} & \text{Me} & \text{Me} \\ \text{Me} & \text{C} & \text{C} & \text{O} & \text{Me} \\ \text{Me} & \text{Me} & \text{Me} & \text{Me} \end{array}$$

CM 3

CRN 15419-94-0 CMF C16 H12 O4

Serial No.:10/582,307 CM 4 CRN 96-33-3 CMF C4 H6 O2 CM 5 CRN 80-62-6 CMF C5 H8 O2 495400-49-2 HCAPLUS RN CN 2-Propenoic acid, 2-methyl-, 4-benzoyl-3-hydroxyphenyl ester, polymer with methyl 2-methyl-2-propenoate, 1,2,2,6,6-pentamethyl-4-piperidinyl 2-methyl-2-propenoate, 2-propenoic acid and α-sulfo-ω-[4-nonyl-2-(1-propenyl)phenoxy]poly(oxy-1,2ethanediyl) ammonium salt, graft (9CI) (CA INDEX NAME) CM 1 CRN 140651-97-4 CMF (C2 H4 O)n C18 H28 O4 S . H3 N CCI PMS (CH2)8-Me

CM 2 CRN 68548-08-3

CMF C14 H25 N O2

CM 3

CRN 2035-72-5 CMF C17 H14 O4

CM 4

CRN 80-62-6 CMF C5 H8 O2

CM 5

CRN 79-10-7 CMF C3 H4 O2

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CN

RN 495400-52-7 HCAPLUS

2-Propenoic acid, 2-methyl-, 4-benzoyl-3-hydroxyphenyl ester, polymer with ethenylbenzene, 1,2,2,6,6-pentamethyl-4-piperidinyl 2-methyl-2-propenoate, 2-propenoic acid and α-sulfo-ω-[4-nonyl-2-(1-propenyl)phenoxylpoly(oxy-1,2-ethanediyl) ammonium salt, graft (9CI) (CA INDEX NAME)

CM 1

CRN 140651-97-4 CMF (C2 H4 O)n C18 H28 O4 S . H3 N CCI PMS

● NH3

CM 2

CRN 68548-08-3 CMF C14 H25 N O2

CM 3

CRN 2035-72-5

CMF C17 H14 O4

CM 4

CRN 100-42-5

CMF C8 H8

H2C==CH-Ph

```
CM 5
CRN 79-10-7
CMF C3 H4 O2
495400-55-0 HCAPLUS
2-Propenoic acid, 2-methyl-, 3-(2H-benzotriazol-2-yl)-4-hydroxyphenyl
ester, polymer with 4-benzoyl-3-hydroxyphenyl 2-propenoate, methyl
2-methyl-2-propenoate, 1,2,2,6,6-pentamethyl-4-piperidinyl
2-methyl-2-propenoate, 2-propenoic acid and
\alpha-sulfo-\omega-[4-nonyl-2-(1-propenyl)phenoxy]poly(oxy-1,2-
ethanediyl) ammonium salt, graft (9CI) (CA INDEX NAME)
CM 1
CRN 140651-97-4
CMF (C2 H4 O)n C18 H28 O4 S . H3 N
CCI PMS
                                (CH2)8-Me
                   ме— сн—— сн
                  NH3
CM 2
```

CRN 132288-91-6 CMF C16 H13 N3 O3

RN

CN

$$\text{H}_2\text{C} = \text{CH} = \overset{\circ}{\text{U}} = \text{O}$$

- RN 495400-58-3 HCAPLUS
- CN 2-Propenoic acid, 2-methyl-, 3-(2H-benzotriazol-2-yl)-4-hydroxyphenyl ester, polymer with 4-benzoyl-3-hydroxyphenyl 2-propenoate, methyl 2-propenoate, 1,2,2,6,6-pentamethyl-4-piperidinyl 2-methyl-2-propenoate, 2-propenoic acid and α-sulfo-ω-[4-nonyl-2-(1
 - propeniols and and a-strio-o-[4-nony1-2-(1-propenyl)phenoxy]poly(oxy-1,2-ethanediyl) ammonium salt, graft (9CI) (CA INDEX NAME)
 - CM 1
 - CRN 140651-97-4
 - CMF (C2 H4 O)n C18 H28 O4 S . H3 N
 - CCI PMS

■ NH3

- CM 2
- CRN 132288-91-6 CMF C16 H13 N3 O3

- CM 3
- CRN 68548-08-3 CMF C14 H25 N O2

CRN 158037-94-6 CMF C15 H11 N3 O3

CCI PMS

● NH3

```
CM 5
CRN 79-10-7
CMF C3 H4 O2
496019-42-2 HCAPLUS
2-Propenoic acid, 2-methyl-, 3-(2H-benzotriazol-2-yl)-4-hydroxyphenyl
ester, polymer with 4-benzoy1-3-hydroxyphenyl 2-propenoate, methyl
2-methyl-2-propenoate, oxirane, 1,2,2,6,6-pentamethyl-4-piperidinyl
2-methyl-2-propenoate and 2-propenoic acid, hydrogen sulfate (ester),
graft, ammonium salt (9CI) (CA INDEX NAME)
CM 1
CRN 7664-93-9
CMF H2 O4 S
CM 2
CRN 495400-56-1
    (C16 H13 N3 O3 . C16 H12 O4 . C14 H25 N O2 . C5 H8 O2 . C3 H4 O2 . C2
CMF
     H4 O)x
CCI PMS
     CM
          3
     CRN 132288-91-6
     CMF C16 H13 N3 O3
```

RN CN

CM 8 CRN 75-21-8 CMF C2 H4 O $^{\circ}$ 496019-43-3 HCAPLUS 2-Propenoic acid, 2-methyl-, 3-(2H-benzotriazol-2-yl)-4-hydroxyphenyl ester, polymer with 4-benzoy1-3-hydroxyphenyl 2-propenoate, methyl 2-propenoate, oxirane, 1,2,2,6,6-pentamethyl-4-piperidinyl 2-methyl-2-propenoate and 2-propenoic acid, hydrogen sulfate (ester), graft, ammonium salt (9CI) (CA INDEX NAME) CM 1 CRN 7664-93-9 CMF H2 O4 S CM 2 CRN 495400-59-4 (C16 H13 N3 O3 . C16 H12 O4 . C14 H25 N O2 . C4 H6 O2 . C3 H4 O2 . C2 CMF

RN CN

Page 66 of 110

```
CM 8

CRN 75-21-8

CMF C2 H4 O

496019-44-4 HCAPLUS
2-Propenoic acid, 2-methyl-, butyl ester, polymer with
3-(2H-benzotriazol-2-yl)-4-hydroxyphenyl 2-propenoate, oxirane,
1,2,2,6,6-pentamethyl-4-piperidinyl 2-methyl-2-propenoate and 2-propenoic acid, hydrogen sulfate (ester), graft, ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 7664-93-9

CMF H2 O4 S
```

 $^{\circ}$

RN

CN

$$_{\rm n-Buo}_\overset{\circ}{\mathbb{U}}_\overset{\rm CH_2}{\mathbb{U}}_{-\rm Me}$$



DOCUMENT NUMBER: 135:196989

TITLE: Room-temperature-curable modified silicone sealing

compositions with weather resistance

INVENTOR(S): Mori, Hiroshi PATENT ASSIGNEE (S):

Ohtsuka Chemical Co., Ltd., Japan Jpn. Kokai Tokkyo Koho, 14 pp.

SOURCE:

CODEN: JKXXAF DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001234072	A	20010828	JP 2000-47794	20000224 <
JP 3280949	B2	20020513		
PRIORITY APPLN. INFO.:			JP 2000-47794	20000224 <

Entered STN: 30 Aug 2001 ED

Title compns. contain 100 parts reactive silvl group-containing polyethers, AB 0.01-20 parts aminosilanes, 2-20 parts polymeric UV absorbers prepared from (meth)acrylic benzotriazoles and/or (meth)acrylic triazines 10-50, reactive silyl-containing vinyl compds. 5-20, (meth)acrylate esters 25-85, and polymerizable hindered amines 0-2%, and 0.01-20 parts Sn catalysts. A composition comprising MS polymer S 203 100, TSL 8340 2, 4:3:3 trimethoxysilvlpropyl methacrylate-tris(trimethylsiloxy)silvlpropyl methacrylate-RUVA 93 copolymer 2, Tinuvin 123 0.05, a Sn catalyst 2, and additives 135 parts showed maximum tensile stress 72 N/cm2 and elongation 450% initially and 79 and 380, resp. after 2,000 h under dew-cycle weatherometer.

356566-74-0P 356566-75-1P 356566-76-2P

357166-90-6P 357166-91-7P 357166-92-8P

357166-93-9P 357166-94-0P

RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(room temperature-curable UV absorber-polymerized polyether silicone sealants

with weather resistance)

RN 356566-74-0 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-[3-(2H-benzotriazol-2-yl)-4-

hydroxyphenyl]ethyl ester, polymer with 2-ethylhexyl

2-methv1-2-propenoate, MS Polymer S 903,

N-[3-(trimethoxysilvl)propvl]-1,2-ethanediamine and

3-(trimethoxysilyl)propyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 183510-69-2

CMF Unspecified CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CRN 96478-09-0

CMF C18 H17 N3 O3

$$\begin{array}{c|c} & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & \\ & & \\ &$$

RN 356566-75-1 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-[3-(2H-benzotriazol-2-y1)-4hydroxyphenyl]ethyl ester, polymer with methyl 2-methyl-2-propenoate, MS Polymer S 903, 1,2,2,6,6-pentamethyl-4-piperidinyl 2-methyl-2-propenoate, N-[3-(trimethoxysilyl)propyl]-1,2-ethanediamine and

3-(trimethoxysilyl)propyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 183510-69-2

CMF Unspecified CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CRN 96478-09-0

CMF C18 H17 N3 O3

CM 3

CRN 68548-08-3 CMF C14 H25 N O2

$$\begin{array}{c|c} \text{H}_2\text{C} & \text{Me} & \text{Me} \\ \text{Me} & \text{C} & \text{C} & \text{Me} \\ \end{array}$$

CM 4

CRN 2530-85-0

CMF C10 H20 O5 Si

CM 5

CRN 1760-24-3 CMF C8 H22 N2 O3 Si

CM 6

CRN 80-62-6 CMF C5 H8 O2

CN

RN 356566-76-2 HCAPLUS

> 2-Propenoic acid, 2-methyl-, methylenebis[[5-(2H-benzotriazol-2-yl)-4hydroxy-3,1-phenylene]-2,1-ethanediyl] ester, polymer with methyl 2-methyl-2-propenoate, MS Polymer S 903, N-[3-(trimethoxysily1)propy1]-1,2-ethanediamine and

3-(trimethoxysily1)propyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 263909-63-3

CMF C37 H34 N6 O6

CM 2

CRN 183510-69-2

CMF Unspecified

CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 3

```
CRN 2530-85-0
CMF C10 H20 O5 Si
```

CM 4

CRN 1760-24-3 CMF C8 H22 N2 O3 Si

CM 5

CRN 80-62-6 CMF C5 H8 O2

RN 357166-90-6 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-[3-(2H-benzotriazol-2-yl)-4hydroxyphenyl]ethyl ester, polymer with Kaneka MS Polymer S 203, N-[3-(trimethoxysilyl)propyl]-1,2-ethanediamine, 3-(trimethoxysilyl)propyl 2-methyl-2-propenoate and 3-[3,3,3-trimethyl-1,1bis[(trimethylsilyl)oxy]disiloxanyl]propyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 178535-69-8 CMF Unspecified

CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CRN 96478-09-0

CMF C18 H17 N3 O3

CM 3

CRN 17096-07-0 CMF C16 H38 O5 Si4

CM 4

CRN 2530-85-0 CMF C10 H20 O5 Si

CM 5

CRN 1760-24-3 CMF C8 H22 N2 O3 Si

RN 357166-91-7 HCAPLUS CN 2-Propenoic acid, 2-methyl-, 2-[3-(2H-benzotriazol-2-y1)-4-

hydroxyphenyl]ethyl ester, polymer with Kaneka MS Polymer S 203, methyl 2-methyl-2-propenoate, N-[3-(trimethoxysilyl)propyl]-1,2-ethanediamine and 3-(trimethoxysilyl)propyl 2-methyl-2-propenoate (9C1) (CA INDEX NAME)

CM 1

CRN 178535-69-8 CMF Unspecified CCI PMS, MAN

CCI PMS, MA

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CRN 96478-09-0 CMF C18 H17 N3 O3

CM 3

CRN 2530-85-0 CMF C10 H20 O5 Si

CM 4

CRN 1760-24-3 CMF C8 H22 N2 O3 Si

CRN 80-62-6 CMF C5 H8 O2

357166-92-8 HCAPLUS RN

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with 2-[4-(4,6-diphenyl-1,3,5-triazin-2-yl)-3-hydroxyphenoxy]ethyl2-propenoate, Kaneka MS Polymer S 203,

N-[3-(trimethoxysily1)propy1]-1,2-ethanediamine and3-(trimethoxysilyl)propyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 178535-69-8

CMF Unspecified

CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CRN 176225-24-4

CMF C26 H21 N3 O4

CM 3

CRN 2530-85-0

CMF C10 H20 O5 Si

CRN 1760-24-3 CMF C8 H22 N2 O3 Si

CM 5

CRN 80-62-6 CMF C5 H8 O2

RN 357166-93-9 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, methylenebis[[5-(2H-benzotriazol-2-yl)-4-hydroxy-3,1-phenylene]-2,1-ethanediyl] ester, polymer with Kaneka MS Polymer S 203, methyl 2-methyl-2-propenoate, N-[3-(trimethoxysilyl)propyl]-1,2-ethanediamine and 3-(trimethoxysilyl)propyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM

1

CRN 263909-63-3 CMF C37 H34 N6 O6

CM 2

CRN 178535-69-8

CMF Unspecified CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

- RN 357166-94-0 HCAPLUS
- CN 2-Propenoic acid, 2-methyl-, 2-[3-(2H-benzotriazol-2-yl)-5-[[3-(2H-benzotriazol-2-yl)-5-] benzotriazol-2-yl)-2-hydroxy-5-methylphenyl]methyl]-4-hydroxyphenyl]ethyl ester, polymer with Kaneka MS Polymer S 203, methyl 2-methyl-2-propenoate, N-[3-(trimethoxysilyl)propyl]-1,2-ethanediamine and

$$\begin{array}{c|c} & \text{OH} & \text{OH} & \text{OH} \\ \hline \\ \text{H2C} & \text{N} & \text{N} & \text{CH2} \\ \text{Me} & \text{C-C-C} & \text{C-CH2-CH2} \\ \end{array}$$

CM 2

CRN 178535-69-8 CMF Unspecified CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 3

CRN 2530-85-0 CMF C10 H20 O5 Si

CM 4

CRN 1760-24-3 CMF C8 H22 N2 O3 Si

OMe

CM 5

CRN 80-62-6 CMF C5 H8 O2

IT 103597-49-5P 215998-14-4P 263909-48-4P 263909-63-3P

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)

 $({\tt room\ temperature-curable\ UV\ absorber-polymerized\ polyether\ silicone\ sealants}$

with weather resistance)

RN 103597-49-5 HCAPLUS

CN Phenol, 2-(2H-benzotriazol-2-yl)-6-[(diethylamino)methyl]-4-methyl- (CA INDEX NAME)

RN 215998-14-4 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-[3-(2H-benzotriazol-2-yl)-5-[[3-(2H-benzotriazol-2-yl)-2-hydroxy-5-methylphenyl]methyl]-4-hydroxyphenyl]ethyl ester (CA INDEX NAME)

$$\begin{array}{c|c} & \text{OH} & \text{OH} & \text{OH} \\ & \text{H}_2C & \text{O} \\ & \text{Me} & \text{C} & \text{C} & \text{O} & \text{C} \\ & \text{H}_2 & \text{C} & \text{O} & \text{C} \\ & \text{H}_2 & \text{C} & \text{O} \\ & \text{Me} & \text{C} & \text{C} & \text{O} \\ \end{array}$$

RN 263909-48-4 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-[3-(2H-benzotriazol-2-yl)-5[(diethylamino)methyl]-4-hydroxyphenyl]ethyl ester (CA INDEX NAME)

RN 263909-63-3 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, methylenebis[[5-(2H-benzotriazo1-2-y1)-4-hydroxy-3,1-phenylene]-2,1-ethanediyl] ester (9CI) (CA INDEX NAME)

50-00-0, Formaldehyde, reactions 2440-22-4 96478-09-0, 2-(2'-Hydroxy-5'-methacryloxyethylphenyl)-2Hbenzotriazole

RL: RCT (Reactant); RACT (Reactant or reagent)

(room temperature-curable UV absorber-polymerized polyether silicone sealants

with weather resistance)

RN 50-00-0 HCAPLUS

Formaldehyde (CA INDEX NAME) CN

H2C==0

2440-22-4 HCAPLUS RN

Phenol, 2-(2H-benzotriazol-2-v1)-4-methv1- (CA INDEX NAME)

96478-09-0 HCAPLUS RN

2-Propenoic acid, 2-methyl-, 2-[3-(2H-benzotriazol-2-yl)-4hydroxyphenyl]ethyl ester (CA INDEX NAME)

ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

L84 ANSWER 12 OF 16 HCAPLUS COPYRIGHT 2009 ACS on STN 2001:101050 HCAPLUS Full-text 134:164625

> Recording method comprising printing recording medium with two liquid components

Kubota, Kazuhide; Ovanagi, Takashi; Mivabayashi, INVENTOR(S):

Toshiyuki

PATENT ASSIGNEE(S): Seiko Epson Corp., Japan

SOURCE: PCT Int. Appl., 137 pp. CODEN: PIXXD2 DOCUMENT TYPE: Patent

LANGUAGE:

Japanese FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.							DATE	APPLICATION NO										
	WO 2001008895 W: JP, US						WO 2000-JP5150											
			BE,	CH,	CY,	DE,	DK,	ES,	FI,	FR	, GB,	GR,	IE,	IT,	LU	, MC,	NL,	,
									E	EP :	2000-	9499	45			20000	731	<
EP	1125																	
	R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR	, IT,	LI,	LU,	NL,	SE	, MC,	PT,	,
		IE,																
	3622				B2		2005	0223		JP :	2001-	5135	96			20000	731	<
AT	3263	354			T		2006	0615	1	AT :	2000-	9499	45			20000	731	<
US 20030069329			A1		2003	0410	Ţ	JS :	2002-	5623	1			20020	125	<		
US	7040	747			B2		2006	0509										
PRIORITY APPLN. INFO.:			. :					Ċ	JP :	1999-	2172	96		A	19990	730	<	
									Ċ	JP :	2000-	7135			A	20000	114	<
										JP :	2000-	2118	21		A	20000	712	<
										IP :	2000-	2229	66		A	20000	724	<
											2000-					20000		
										TP :	2000-	2241	41		A	20000	725	<
											2000-					20000		
											2001-					20010		
											2001-							
											2001	0002	, ,		112	20010	020	_

Entered STN: 09 Feb 2001

232935-02-3P, Acrylamide-acrylic acid-ADK Stab LA 82-butyl acrylate-RUVA 93-styrene copolymer ammonium salt 324575-78-29 324575-80-6P 324575-82-8P

RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(emulsion, ink containing; preparation and properties of printing ink composition

with two liquid components) 232935-02-3 HCAPLUS

RN

AB Title recording method for providing a good image with excellent adhesion to a recording medium and friction-resistance comprises printing by using an ink composition comprising a colorant, resin emulsion particles, a water-soluble organic solvent and water, and a reacting liquid comprising a reactant producing a coagulation upon contacting with the above ink composition to adhere to a recording medium, wherein the method comprises the steps of making the reacting liquid to adhere to the recording medium, then attaching the ink composition to the medium to print an image, and washing the recording medium printed with a polar solvent. Thus an ink composition comprising (1) a reacting liquid containing Mg(NO3)2.6H2O, triethylene glycol Bu monoether, glycerin, and ion exchanged water, (2) a black ink composition containing carbon black MA 7, styrene-acrylic acid copolymer, styrene-2-ethylhexyl acrylate-methacrylic acid copolymer-sodium dodecylbenzenesulfonate emulsion, glycerin, and ion exchanged water, and (3) a color ink set containing cyan, magenta, and yellow inks was prepared for printing test, showing good image quality and good adhesion to medium after washing and heating.

CN 2-Propenoic acid, 2-methyl-, 2-[3-(2H-benzotriazol-2-yl)-4hydroxyphenyl]ethyl ester, polymer with butyl 2-propenoate, ethenylbenzene, 1,2,2,6,6-pentamethyl-4-piperidinyl 2-methyl-2-propenoate, 2-propenamide and 2-propenoic acid, ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 215377-65-4

CMF (C18 H17 N3 O3 . C14 H25 N O2 . C8 H8 . C7 H12 O2 . C3 H5 N O . C3 H4

CCI PMS

CM

CRN 96478-09-0

CMF C18 H17 N3 O3

CM 3

CRN 68548-08-3 CMF C14 H25 N O2

CM 4

CRN 141-32-2 CMF C7 H12 O2

CMF C7 H12 O2

```
CRN 100-42-5
         CMF C8 H8
H2C==CH=Ph
         CM 6
         CRN 79-10-7
         CMF C3 H4 O2
         CM 7
         CRN 79-06-1
         CMF C3 H5 N O
RN
  324575-78-2 HCAPLUS
    2-Propenoic acid, 2-methyl-, polymer with
    2-[3-(2H-benzotriazo1-2-y1)-4-hydroxyphenyl]ethyl 2-methyl-2-propenoate,
    butyl 2-propenoate, ethenylbenzene, oxiranylmethyl 2-methyl-2-propenoate,
    1,2,2,6,6-pentamethyl-4-piperidinyl 2-methyl-2-propenoate and
    2-propenamide, ammonium salt (9CI) (CA INDEX NAME)
    CM
        1
    CRN 324575-77-1
    CMF (C18 H17 N3 O3 . C14 H25 N O2 . C8 H8 . C7 H12 O2 . C7 H10 O3 . C4 H6
         02 . C3 H5 N O)x
    CCI PMS
         CM 2
         CRN 96478-09-0
         CMF C18 H17 N3 O3
```

$$\begin{array}{c|c} & \circ H \\ & \downarrow \\$$

CM 3

CRN 68548-08-3 CMF C14 H25 N O2

CM 4

CRN 141-32-2 CMF C7 H12 O2

CM 5

CRN 106-91-2 CMF C7 H10 O3

$$\overset{\circ}{ }_{\text{CH}_2-\text{O}} \overset{\circ}{\underset{\mathbb{L}}{\mathbb{L}}} \overset{\circ}{\underset{\mathbb{L}}{\mathbb{L}}} \overset{\circ}{\underset{\mathbb{L}}{\mathbb{L}}}_{\text{Me}}$$

CM 6

CRN 100-42-5

CMF C8 H8

H2C CH-Ph

CM 7 CRN 79-41-4 CMF C4 H6 O2

CM 8

CRN 79-06-1 CMF C3 H5 N O

RN 324575-80-6 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 1,2-ethanediyl ester, polymer with 2-(3-(2H-benzotriazo-12-yl)-4-hydroxyphenyl)ethyl 2-methyl-2-propenoate, butyl 2-propenoate, ethenylbenzene, 1,2,2,6,6-pentamethyl-4-piperidinyl 2-methyl-2-propenoate, 2-propenamide and 2-propenoic acid, ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 324575-79-3 CMF (C18 H17 N3 O3 . C14 H25 N O2 . C10 H14 O4 . C8 H8 . C7 H12 O2 . C3 H5 N O . C3 H4 O2)x

CCI PMS

CM 2

CRN 96478-09-0 CMF C18 H17 N3 O3

CM 7 CRN 79-10-7

Page 87 of 110

CMF C3 H4 O2

CM

CRN 79-06-1 CMF C3 H5 N O

RN 324575-82-8 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with 2-[3-(2H-benzotriazol-2-yl)-4-hydroxyphenyl]ethyl 2-methyl-2-propenoate, butyl 2-propenoate, 1,2-ethanediyl bis(2-methyl-2-propenoate), ethenylbenzene, oxiranylmethyl 2-methyl-2-propenoate,

1,2,2,6,6-pentamethyl-4-piperidinyl 2-methyl-2-propenoate, 2-propenamide and 2-sulfoethyl 2-methyl-2-propenoate sodium salt, ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 324575-81-7

CMF (C18 H17 N3 O3 . C14 H25 N O2 . C10 H14 O4 . C8 H8 . C7 H12 O2 . C7 H10 O3 . C6 H10 O5 S . C4 H6 O2 . C3 H5 N O . Na)x

H10 03 . C6 H10 05 S . C4 H6 02 . C3 H5 N O . Na)x

CM

CRN 96478-09-0 CMF C18 H17 N3 O3

2

CM 3

CRN 68548-08-3 CMF C14 H25 N O2

CM 4

CRN 1804-87-1 CMF C6 H10 O5 S . Na

0 CH2 H03S— CH2— CH2— 0 — C — Me

● Na

CM 5

CRN 141-32-2 CMF C7 H12 O2

CM 6

CRN 106-91-2 CMF C7 H10 O3

$$\overset{\circ}{ \hookrightarrow}_{\text{CH}_2-\circ} = \overset{\circ}{\mathbb{L}} = \overset{\circ}{\mathbb{L}}_{-\text{Me}}^{\text{CH}_2}$$

CM 7

CRN 100-42-5 CMF C8 H8 H 2 C --- CH-- Ph

CN

CM 1

```
CM 8
         CRN 97-90-5
         CMF C10 H14 O4
         CM 9
         CRN 79-41-4
         CMF C4 H6 O2
Me_U_CO2H
         CM 10
         CRN 79-06-1
         CMF C3 H5 N O
H2N_C_CH_CH2
    324575-83-9P 324575-84-0P 324737-84-0P, Butyl
    methacrylate-ethylene oxide-methacrylic acid-phenoxyethyl methacrylate
    graft copolymer ammonium sulfate
    RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM
    (Technical or engineered material use); PREP (Preparation); USES (Uses)
       (pigment dispersion; preparation and properties of printing ink composition
with
       two liquid components)
    324575-83-9 HCAPLUS
RN
```

Page 90 of 110

nonylphenoxy)methy1]-2-(2-propenyloxy)ethoxy]poly(oxy-1,2-ethanediy1)

2-Propenenitrile, polymer with α -sulfo- ω -[1-[(4-

ammonium salt, graft (9CI) (CA INDEX NAME)

```
CRN 136931-77-6
    CMF (C2 H4 O)n C21 H34 O6 S . H3 N
    CCI PMS
                                          (CH<sub>2</sub>)8−Me
                          ● NH3
    CM 2
    CRN 107-13-1
    CMF C3 H3 N
 H 2 C --- C H -- C --- N
RN
    324575-84-0 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-methyl-2-propenoate,
     2-phenoxyethyl 2-methyl-2-propenoate and
    \alpha-sulfo-\omega-[1-[(nonylphenoxy)methyl]-2-(2-
    propenyloxy)ethoxy[poly(oxy-1,2-ethanediyl) ammonium salt, graft (9CI)
    (CA INDEX NAME)
    CM 1
    CRN 113405-85-9
    CMF (C2 H4 O)n C21 H34 O6 S . H3 N
    CCI IDS, PMS
             D1- (CH2)8-Me
```

● NH3

D1-0-CH2-CH-CH2-0-CH2-CH-CH2

RN 324737-84-0 HCAPLUS CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-methyl-2-propenoate, oxirane and 2-phenoxyethyl 2-methyl-2-propenoate, hydrogen sulfate, graft, ammonium salt (9CI) (CA INDEX NAME)
CM 1

CRN 7664-93-9 CMF H2 O4 S

```
CM 2
   CRN 324737-83-9
   CMF (C12 H14 O3 . C8 H14 O2 . C4 H6 O2 . C2 H4 O) x
   CCI PMS
        CM 3
        CRN 10595-06-9
        CMF C12 H14 O3
H2C 0 0-CH2-CH2-OPh
        CM 4
        CRN 97-88-1
        CMF C8 H14 O2
     O CH2
n-Buo_U_U_Me
        CM 5
        CRN 79-41-4
        CMF C4 H6 O2
   CH2
Me_U_CO2H
        CM 6
        CRN 75-21-8
        CMF C2 H4 O
```



RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L84 ANSWER 13 OF 16 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2001:28673 HCAPLUS Full-text
DOCUMENT NUMBER: 134:102179

TITLE: Polymers for imparting light resistance to fibers, highly light-resistant fibers, and their production

INVENTOR(S): Nishida, Toshifumi; Noda, Nobuhisa; Aoyama, Takahiro

PATENT ASSIGNEE(S): Nippon Shokubai Co., Ltd., Japan

SOURCE: Eur. Pat. Appl., 17 pp.
CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

PATENT NO.	KIND DATE	APPLICATION NO.	DATE	
EP 1067223		10110 EP 2000-114042	20000705 <	
	DE, DK, ES,	50406 FR, GB, GR, IT, LI, LU, NI	, SE, MC, PT,	
IE, SI, LT, JP 2001019716	LV, FI, RO A 2001	10123 JP 1999-196567	19990709 <	
JP 4220620 CN 1280214		0204 10117 CN 2000-109566	20000705 <	
CN 1163641 US 6312802	C 2004	10825 11106 US 2000-612213	20000707 <	
PRIORITY APPLN. INFO.:	B1 2001	JP 1999-196567	A 19990709 <	

ED Entered STN: 12 Jan 2001

- AB A polymer for imparting light resistance to fibers is prepared by radically polymerizing a monomer composition including a specific UV stabilizable monomer and/or UV absorptive monomer. A highly light-resistant fiber includes the light resistance imparting polymer inside or on the surface of the fiber. A coating solution (PhMe) of hydroxymethacryloyloxyethylphenyl benzoriazole-cyclohexane methacrylate-4-methacryloyloxy-2, 2, 6, 6- tetramethylpheridine copolymer (10:20:60) was used for dipping of polymethaneurea fiber followed by heat drying. The coated fiber had strength retention ratio 71% and 69% after humid storage, and yellowing resistance 8b 6.5.
- IT 204390-80-7P 319012-83-4P 319012-86-7P

RL: IMF (Industrial manufacture); PEP (Physical, engineering or chemical process); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); PROC (Process); USES (Uses)

(bicomponent with fibers; polymer fibers or coatings for imparting light resistance to fibers)

RN 204390-80-7 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-[3-(2H-benzotriazol-2-yl)-4hydroxyphenyl]ethyl ester, polymer with cyclohexyl 2-methyl-2-propenoate and 2,2,6,6-tetramethyl-4-piperidinyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 96478-09-0 CMF C18 H17 N3 O3

$$\begin{array}{c|c} & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & &$$

CM :

CRN 31582-45-3 CMF C13 H23 N O2

CM

CRN 101-43-9 CMF C10 H16 O2

RN 319012-83-4 HCAPLUS

2-Propenoic acid, 2-methyl-, butyl ester, polymer with 2-{3-(1,1-dimethylethyl)-5-{4-(1,1-dimethylethyl)-2H-benzotriazol-2-yl}-4-hydroxyphenoxy|ethyl 2-methyl-2-propenoate, methyl 2-methyl-1-2,2,6,6-tetramethyl-1-(2-methyl-1-oxo-2-propenyl)-4-piperidinyl|-2-propenamide (9CI) (CA INDEX NAME)

CM 1

CN

CRN 187231-12-5 CMF C17 H28 N2 O2

CM 2

CRN 141-32-2 CMF C7 H12 O2

n_Buo____CH___CH_2

CM 3

CRN 101-43-9 CMF C10 H16 O2

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L84 ANSWER 14 OF 16 HCAPLUS COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 1998:149617 HCAPLUS <u>Full-text</u>

DOCUMENT NUMBER: 128:231082

ORIGINAL REFERENCE NO.: 128:45769a,45772a

TITLE: Weather-resistant polyurea-polyurethane compositions

INVENTOR(S): Morito, Yoshinori

PATENT ASSIGNEE(S): Asahi Chemical Industry Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp. CODEN: JKXXAF

DOCUMENT TYPE: Patent
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

JP 10060262 A 19980303 JP 1996-222144 19960823 <-PRIORITY APPLN. INFO::
DED Entered STN: 12 Mar 1998

The title compns. comprise polyurea-polyurethanes (e.g., ethylenediamine-MDI-AB polytetramethylene glycol copolymer), hindered phenol compds. (e.g., reaction product of p-cresol-dicyclopentadiene copolymer and isobutylene), polyurethanes containing tertiary amino groups (e.g., N-butyl-N, Ndiethanolamine-isophorone diisocyanate copolymer), and 0.3-3.0% benzotriazole compds. (e.g., Tinuvin 571, Tinuvin 213).

23328-53-2, Tinuvin 571 136457-10-8, Tinuvin 213 IΤ

RL: MOA (Modifier or additive use); TEM (Technical or engineered material use): USES (Uses)

(UV absorbents; weather-resistant polyurea-polyurethane compns.)

RN 23328-53-2 HCAPLUS

CN Phenol, 2-(2H-benzotriazol-2-vl)-6-dodecvl-4-methyl- (CA INDEX NAME)

RN 136457-10-8 HCAPLUS

CN Poly(oxv-1,2-ethanediyl), α -[2-(2H-benzotriazol-2-vl)-6-(1,1dimethylethyl)-4-(3-methoxy-3-oxopropyl)phenyl]-ω-hydroxy- (CA INDEX NAME)

L84 ANSWER 15 OF 16 HCAPLUS COPYRIGHT 2009 ACS on STN ACCESSION NUMBER:

1997:211184 HCAPLUS Full-text DOCUMENT NUMBER: 126:200631

ORIGINAL REFERENCE NO.: 126:38773a,38776a

TITLE: UV absorber compositions for manufacture of dyed or printed fibers with good lightfastness and leveling

INVENTOR(S): Best, Michael; Murat, Jean-Luc; Palacin, Francis

PATENT ASSIGNEE(S): Clariant Finance (Bvi) Limited, UK;

Sandoz-Patent-Gmbh; Sandoz-Erfindungen

Verwaltungsgesellschaft M.B.H.; Best, Michael; Murat, Jean-Luc; Palacin, Francis

PCT Int. Appl., 24 pp. SOURCE:

CODEN: PIXXD2 DOCUMENT TYPE: Pat.ent.

LANGUAGE: English FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

1	PATENT NO.					KIND D		DATE	DATE		PLICATI	DATE				
1	MO.	9703	242			A1		1997	0130	WO	1996-E	P3050		19960	711 -	<
		W:	BR,	JP,	US											
		RW:	ΑT,	BE,	CH,	DE,	DK,	ES,	FI,	FR, G	B, GR,	IE, IT,	LU,	MC, NL,	PT,	SE
(GΒ	2308	847			A		1997	0709	GB	1995-2	26206		19951	.221 -	<
1	EΡ	8423	19			A1		1998	0520	EP	1996-9	25729		19960	711 -	<
1	EΡ	8423	19			B1		2001	0516							
		R:	AT,	BE,	CH,	DE,	DK.	ES,	FR,	GB, I	T, LI,	SE, FI				
3	BR	9609	728			A		1999	0511	BR	1996-9	728		19960	711 -	<
	JΡ	1150	8935			T		1999	0803	JP	1996-5	05507		19960	711 -	<
1	ES	2158	328			Т3		2001	0901	ES	1996-9	25729		19960	711 -	<
PRIOR:	IT	APP	LN.	INFO	. :					US	1995-5	01335	I	19950	712 -	<
										GB	1995-2	26206	I	A 19951	.221 -	<
										WO	1996-E	P3050	V	# 19960	711 -	<

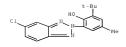
- ED Entered STN: 02 Apr 1997
- AB The compns. comprise 20-45% 2-(2'-hydroxyphenyl)benzotriazoles as light stabilizers, 7-25% condensates of sulfonated tolv1 ether and HCHO, and 0.5-10% addition products of ethylene oxide and/or propylene oxide and C7-20 fatty alcs., C7-20 fatty acids, C7-20 fatty amides, C7-20 fatty esters, tristyrylphenol, and/or distyrylphenol as nonionic surfactants and H2O, have good storage stability, and show excellent shear stability when the substrate to be dyed is a yarn which is in the packed form. Thus, 2-(2'-hydroxy-3'tert-butyl-5'-methylphenyl)-5-chlorobenzotriazole 25.0, dioleyl ether sulfonate-HCHO condensate (Baykanol SL) 14.0, propylene glycol-propylene oxide-ethylene oxide adduct (Pluronic P 75) 1.20, ethoxylated tristyrylphenol (Soprophor BSU) 4.0, wetting agent 1.0, GivGard (conservation agent) 0.20, NaOH 0.05, and H2O 54.55 parts were mixed to give a dispersion (A). A polyester fabric was dyed with an aqueous composition containing 0.75% C.I. Disperse Red 74 and 0.75% A dispersion in an autoclave for 20 min at 135° to give a fabric exhibiting excellent lightfastness and good leveling.
- IT 70559-25-0, Soprophor BSU

RL: MOA (Modifier or additive use); PRP (Properties); USES (Uses)

(leveling agent; UV absorber compns. for manufacture of dyed or printed fibers with good lightfastness and leveling containing)

- RN 70559-25-0 HCAPLUS
- CN Poly(oxy-1,2-ethanediy1), α-[2,4,6-tris(1-phenylethy1)pheny1]ω-hydroxy- (CA INDEX NAME)

- IT 3896-11-5
 - RL: MOA (Modifier or additive use); PRP (Properties); USES (Uses)
 (light stabilizer; UV absorber compons. for manufacture of dyed or printed
 fibers with good lightfastness and leveling)
- RN 3896-11-5 HCAPLUS
- CN Phenol, 2-(5-chloro-2H-benzotriazol-2-y1)-6-(1,1-dimethylethyl)-4-methyl-(CA INDEX NAME)



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L84 ANSWER 16 OF 16 HCAPLUS COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 1989:194760 HCAPLUS Full-text

DOCUMENT NUMBER: 110:194760

ORIGINAL REFERENCE NO.: 110:32337a,32340a

TITLE: Benzotriazole light stabilizers for thermosetting resin coatings

INVENTOR(S):

Yaqi, Masaki; Nakahara, Yutaka; Takatori, Katsuyuki; Nakajima, Toshio

PATENT ASSIGNEE(S): Adeka Argus Chemical Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF DOCUMENT TYPE: Patent.

LANGUAGE: Japanese FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 63205334	A	19880824	JP 1987-36935	19870220
PRIORITY APPLN. INFO.:			JP 1987-36935	19870220
ED Entered STN: 26 Mar	v 1989			

т

$$\bigcap_{\mathbb{N}} \bigcap_{\mathbb{R}} \bigcap_{\mathbb{R}} \operatorname{COCR}^1 = \operatorname{CH}_2$$

AΒ Title stabilizers are composed of benzotriazoles I [R = H, alkvl; R1 = H, Me; X = O, CH2NH, OCH2CH2O, OCH2CH(OH)CH2O, CH2O, CH2CH2O, CH2CH2CO2CH2CH2O, CH2CH2CO2CH2CH(OH)CH2O]. A primed steel plate was sprayed with a base coating composition containing Bu acrylate (II)-2-hydroxyethyl methacrylate (III)methacrylic acid (IV)-Me methacrylate (V) copolymer, U-Van 20SE60, cellulose acetate butyrate, Alpaste 1123N, xylene, AcOBu, and Cu phthalocyanine blue, left for 10 min, sprayed with a top coating composition containing II-III-IV-V-[2-hydroxy-3-(acryloylaminomethyl)-5- methylphenyl]benzotriazole (VI) copolymer, U-Van 20SE60, xylene, and Bu glycol acetate, and baked 30 min at 140° to form a coating, which cracked after 2500 h in weather-o-meter test, vs., 1600 for the coating prepared without VI.

IT 120303-74-4 120326-77-4 120326-80-9
RL: TEM (Technical or engineered material use); USES (Uses) (coatings, weather-resistant)
RN 120303-74-4 RCAPLUS
RN 120303-74-4 RCAPLUS
3-[4-(2H-benzotriazol-2-yl)-3-hydroxyphenoxy]-2-hydroxypropyl
2-propenoate, butyl 2-propenoate, formaldehyde, 2-hydroxyethyl
2-methyl-2-propenoate, methyl 2-methyl-2-propenoate and
1,3,5-triazine-2,4,6-triamine (9C1) (CA INDEX NAME)
CM 1
CRN 25177-21-3
CMF C18 H17 N3 05

CM :

CRN 868-77-9 CMF C6 H10 O3

CM 3

CRN 141-32-2 CMF C7 H12 O2

n-Buo_U_CH__CH2

CM 4

CRN 108-78-1 CMF C3 H6 N6

Page 102 of 110

CRN 77537-89-4 CMF Unspecified CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CRN 24802-38-8

CMF C19 H19 N3 05

$$\begin{array}{c} \text{OH} \\ \text{O-CH2-} \\ \text{CH-CH2-O-} \\ \text{U-Me} \\ \end{array}$$

CM 3

CRN 868-77-9 CMF C6 H10 O3

CM 4

CRN 688-84-6 CMF C12 H22 O2

CM 5

CRN 141-32-2 CMF C7 H12 O2

$$_{\text{Me}} = \overset{\text{CH}_2}{\underset{-\text{CO}_2\text{H}}{\text{H}}}$$

```
H2C==0
RN
    120326-80-9 HCAPLUS
    2-Propenoic acid, 2-methyl-, polymer with
CN
    3-[3-(2H-benzotriazo1-2-y1)-5-(1,1-dimethylethyl)-4-hydroxyphenoxy]-2-
    hydroxypropyl 2-methyl-2-propenoate, butyl 2-propenoate, ethenylbenzene,
    2-ethylhexyl 2-methyl-2-propenoate, formaldehyde, 2-hydroxyethyl
    2-methyl-2-propenoate, Mark EP 13, methyl 2-methyl-2-propenoate and
    1,3,5-triazine-2,4,6-triamine (9CI) (CA INDEX NAME)
    CM
    CRN 120284-06-2
    CMF C23 H27 N3 O5
    CM 2
    CRN 77537-89-4
    CMF Unspecified
    CCI PMS, MAN
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
    CM 3
    CRN 868-77-9
    CMF C6 H10 O3
    CM 4
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CRN 688-84-6 CMF C12 H22 O2

Search History

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1 SEA SPE=ON ABB=ON PLU=ON US2007-582307/APPS
   FILE 'REGISTRY' ENTERED AT 08:36:29 ON 18 APR 2009
             9 SEA SPE=ON ABB=ON PLU=ON (50-00-0/BI OR 119-61-9/BI OR
               28299-41-4/BI OR 290-87-9/BI OR 3896-11-5/BI OR 613-79-6/BI OR
               70559-25-0/BI OR 91-20-3/BI OR 95-14-7/BI)
L3
               STRUCTURE UPLOADED
L4
            50 SEA SSS SAM L3
L5
              STRUCTURE UPLOADED
1.6
              STRUCTURE UPLOADED
L7
          50 SEA SSS SAM L5 AND L6
L8
             STRUCTURE UPLOADED
L9
           50 SEA SSS SAM L8
L10
             STRUCTURE UPLOADED
L11
           50 SEA SSS SAM L10
L12
           0 SEA SPE=ON ABB=ON PLU=ON L11 AND L2
L13
              SCR 2043
           50 SEA SSS SAM L13 AND L10
L14
L15
            0 SEA SPE=ON ABB=ON PLU=ON L14 AND L2
        43152 SEA SSS FUL L13 AND L10
L16
             1 SEA SPE=ON ABB=ON PLU=ON L16 AND L2
L18
             1 SEA SPE=ON ABB=ON PLU=ON FORMALDEHYDE/CN
              SEL RN
L19
         28562 SEA SPE=ON ABB=ON PLU=ON 50-00-0/CRN
1.20
           41 SEA SPE=ON ABB=ON PLU=ON C H2 O/MF
L21
           182 SEA SPE=ON ABB=ON PLU=ON C H2 O .?/MF
    FILE 'HCAPLUS' ENTERED AT 08:49:52 ON 18 APR 2009
         81819 SEA SPE=ON ABB=ON PLU=ON L16
L23
         80569 SEA SPE=ON ABB=ON PLU=ON L18
L24
        95297 SEA SPE=ON ABB=ON PLU=ON L19
1.25
          647 SEA SPE=ON ABB=ON PLU=ON L22 AND L23
L26
          4813 SEA SPE=ON ABB=ON PLU=ON L22 AND L24
    FILE 'REGISTRY' ENTERED AT 08:51:31 ON 18 APR 2009
L27
          0 SEA SPE=ON ABB=ON PLU=ON L16 AND L18
L28
           661 SEA SPE=ON ABB=ON PLU=ON L16 AND L19
T.29
             O SEA SPE=ON ABB=ON PLU=ON L16 AND (L20 OR L21)
    FILE 'HCAPLUS' ENTERED AT 08:52:07 ON 18 APR 2009
1.30
           412 SEA SPE=ON ABB=ON PLU=ON L28
    FILE 'REGISTRY' ENTERED AT 08:52:25 ON 18 APR 2009
    FILE 'HCAPLUS' ENTERED AT 08:53:25 ON 18 APR 2009
L31
          541 SEA SPE=ON ABB=ON PLU=ON L25 AND (PRY<=2004 OR AY<=2004 OR
               PY<=2004)
          4279 SEA SPE=ON ABB=ON PLU=ON L26 AND (PRY<=2004 OR AY<=2004 OR
               PY<=2004)
           346 SEA SPE=ON ABB=ON PLU=ON L30 AND (PRY<=2004 OR AY<=2004 OR
               PY<=2004)
   FILE 'REGISTRY' ENTERED AT 08:58:05 ON 18 APR 2009
1.34
              STRUCTURE UPLOADED
L35
          50 SEA SUB=L16 SSS SAM L34
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L36
        41740 SEA SUB=L16 SSS FUL L34
L37
          652 SEA SPE=ON ABB=ON PLU=ON L36 AND (L18 OR L19)
1.38
             0 SEA SPE=ON ABB=ON PLU=ON L37 AND L2
   FILE 'HCAPLUS' ENTERED AT 08:59:40 ON 18 APR 2009
L39 81094 SEA SPE=ON ABB=ON PLU=ON L36
           24 SEA SPE=ON ABB=ON PLU=ON L36(L)L18
L40
L41
            O SEA SPE=ON ABB=ON PLU=ON L40 AND L1
L42
            1 SEA SPE=ON ABB=ON PLU=ON L39 AND L1
L43
          640 SEA SPE=ON ABB=ON PLU=ON L39 AND L23
           1 SEA SPE=ON ABB=ON PLU=ON L43 AND L1
L44
L45
          4782 SEA SPE=ON ABB=ON PLU=ON L39 AND L24
1.46
             0 SEA SPE=ON ABB=ON PLU=ON L45 AND L1
   FILE 'REGISTRY' ENTERED AT 09:04:37 ON 18 APR 2009
             1 SEA SPE=ON ABB=ON PLU=ON 28299-41-4/RN
    FILE 'HCAPLUS' ENTERED AT 09:04:58 ON 18 APR 2009
          536 SEA SPE=ON ABB=ON PLU=ON L43 AND (PRY<=2004 OR AY<=2004 OR
               PY<=2004)
   FILE 'REGISTRY' ENTERED AT 09:06:57 ON 18 APR 2009
L49 23942 SEA SPE=ON ABB=ON PLU=ON 333.415.11/RID
L50
         21464 SEA SPE=ON ABB=ON PLU=ON L49 AND 46.150.18/RID
             3 SEA SPE=ON ABB=ON PLU=ON L37 AND L50
L51
    FILE 'HCAPLUS' ENTERED AT 09:09:34 ON 18 APR 2009
L52
           1 SEA SPE=ON ABB=ON PLU=ON L51
1.53
         10161 SEA SPE=ON ABB=ON PLU=ON L50
            3 SEA SPE=ON ABB=ON PLU=ON L48 AND L53
L54
L55
           591 SEA SPE=ON ABB=ON PLU=ON L22 AND L53
          519 SEA SPE=ON ABB=ON PLU=ON L55 AND (PRY<=2004 OR AY<=2004 OR
L56
              PY<=2004)
L57
          587 SEA SPE=ON ABB=ON PLU=ON L36 AND L53
L58
          515 SEA SPE=ON ABB=ON PLU=ON L57 AND (PRY<=2004 OR AY<=2004 OR
               PY<=2004)
    FILE 'REGISTRY' ENTERED AT 09:15:28 ON 18 APR 2009
          20674 SEA SPE=ON ABB=ON PLU=ON L50 AND O>=1
L59
    FILE 'HCAPLUS' ENTERED AT 09:15:48 ON 18 APR 2009
L60
        10000 SEA SPE=ON ABB=ON PLU=ON L59
L61
          590 SEA SPE=ON ABB=ON PLU=ON (L22 OR L36) AND L60
1.62
         6707 SEA SPE=ON ABB=ON PLU=ON UV STABILIZERS/CT
          163 SEA SPE=ON ABB=ON PLU=ON L58 AND L62
L63
          1560 SEA SPE=ON ABB=ON PLU=ON DISPERSE DYES/CT
1.64
L65
         2052 SEA SPE=ON ABB=ON PLU=ON DISPERSE DYES+RT/CT
        24655 SEA SPE=ON ABB=ON PLU=ON DISPERSING AGENTS/CT
L66
L67
            1 SEA SPE=ON ABB=ON PLU=ON L63 AND L65
L68
            1 SEA SPE=ON ABB=ON PLU=ON L63 AND L67
L69
            1 SEA SPE=ON ABB=ON PLU=ON L58 AND L65 AND L66
6 SEA SPE=ON ABB=ON PLU=ON L58 AND (L65 OR L66)
L70
L71
            9 SEA SPE=ON ABB=ON PLU=ON L63 AND 40/SC,SX
L72
          494 SEA SPE=ON ABB=ON PLU=ON BAILEY B?/AU
L73
          459 SEA SPE=ON ABB=ON PLU=ON GRIFFIN B?/AU
L74
          218 SEA SPE=ON ABB=ON PLU=ON LYONS B?/AU
L75
        218 SEA SPE=ON ABB=ON PLU=ON LYONS B?/AU
3927 SEA SPE=ON ABB=ON PLU=ON WEBER M?/AU
            1 SEA SPE=ON ABB=ON PLU=ON SARETTO B?/AU
L76
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L77	9	SEA SPE=ON ABB=ON PLU=ON SCHLINGMANN H?/AU
L78	-	SEA SPE=ON ABB=ON PLU=ON MAHLER G?/AU
L79	1	SEA SPE=ON ABB=ON PLU=ON (L72 OR L73 OR L74 OR L75 OR L76
T 12	_	\
		OR L77 OR L78) AND (L52 OR L54 OR L70 OR L71 OR L67 OR L68 OR
		L69)
L80	117	SEA SPE=ON ABB=ON PLU=ON L63 AND PREP/RL
L81	163	SEA SPE=ON ABB=ON PLU=ON L63 AND USES/RL
		S L63 AND PMS/CI
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L82	1264360	SEA SPE=ON ABB=ON PLU=ON PMS/CI
	FILE 'HCAPL	US' ENTERED AT 09:36:29 ON 18 APR 2009
L83	17	SEA SPE=ON ABB=ON PLU=ON (L67 OR L68 OR L69 OR L52 OR L54
Б03		
		OR L70 OR L71)

L84 16 SEA SPE=ON ABB=ON PLU=ON L83 NOT L79